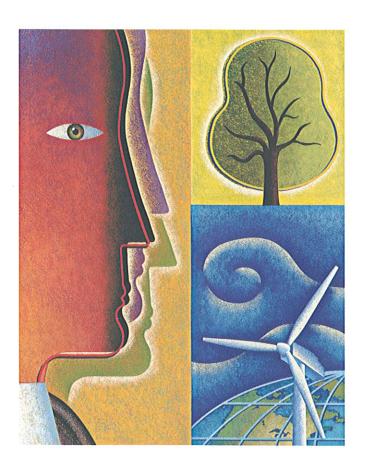


Quarterly Monitoring Report 3rd Quarter 2010

Dayco Corporation/L.E. Carpenter Superfund Site Borough of Wharton, Morris County, New Jersey

USEPA ID No. NJD002168748

October 2010





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Prepared For L.E. Carpenter & Company

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Section 1 Introduction and Summary

RMT, Inc. (RMT), on behalf of L.E. Carpenter & Company (LEC), has prepared this Quarterly Monitoring Report (QMR) for the Dayco Corporation/L.E. Carpenter Superfund Site ("Site") located at 170 North Main Street, Borough of Wharton, Morris County, New Jersey (Figure 1). Quarterly monitoring events are performed, and associated progress reports completed and submitted to the United States Environmental Protection Agency (USEPA), to comply with paragraph 49 of the 2009 Unilateral Administrative Order (UAO) issued to LEC by the USEPA (effective August 6, 2009). We provide a summary of activities completed during the third quarter of 2010 (3Q10), including but not limited to: (1) continued quarterly Contaminant of Concern (COC) groundwater monitoring of both the MW19/Hot Spot 1 (MW19HS1) and MW-30 areas of concern (AOCs), (2) continued quarterly Monitored Natural Attenuation (MNA) groundwater monitoring of the MW-30 AOC, (3) surface water quality assessments of the drainage ditch and Rockaway River, and (4) hydrogeologic and hydrologic assessments of shallow site groundwater and adjacent surface water bodies.

RMT conducted the following tasks during 3Q10:

■ Quarterly groundwater and surface water monitoring within the MW19HS1 area, the MW-30 area, the eastern wetland area (Wharton Enterprise property), and adjacent surface water bodies (*i.e.*, Rockaway River and Eastern Drainage Channel) as required under the 2009 UAO, and as described in the Post Remedial Monitoring Plan (PRMP) and other regulatory correspondence (Reference Sections 2, 3, 4, and 5 below; and Tables 1-5).

Discussion of these activities is provided in the referenced sections. Specific results for each of the three (3) monitored AOCs are summarized as follows:

■ <u>MW19HS1</u>: Although intrinsic bioremediation processes were documented to be strong in the MW19HS1 area, and that groundwater contamination was reducing over time within a small limited on-site area, LEC agreed to perform a more robust remediation of residual source material found as a result of several Site investigations and groundwater monitoring events. Data from these investigations and monitoring events were used to prepare an Addendum to the USEPA approved Remedial Action Work Plan (RAWP) that was submitted on September 3, 2009 (Note: the original RAWP was prepared by RMT and submitted in April 2004, and following a comment and response period was approved on December 21, 2004). USEPA provided comments on the Addendum to the RAWP in an email dated December 21, 2009. Responses to the MW19HS1 specific comments were submitted by RMT to USEPA on December 29, 2009 and approved by USEPA in their email dated December 30, 2009. Implementation of the MW19HS1 area investigation and

remediation began on January 11, 2010 and was completed in mid-April 2010. Documentation of the event was included in the Addendum to the Remedial Action Report (RAR) Source Reduction, submitted on July 19, 2010, along with a proposed post remedial monitoring plan (*i.e.*, monitoring well installation, soil gas sampling, and groundwater quality analysis).

■ MW-30 Area of Concern: Shallow groundwater flow in the MW-30 area is similar to flow that occurred before the 2005 source reduction in that shallow groundwater at the Site is recharged by Washington Forge Pond, as well as the first 600 feet of the Rockaway River below the dam. The effect of the buried slurry monolith on groundwater flow appears to be limited in extent and occurs mainly within and near the edges of the source reduction area. The presence of the monolith does not change the overall horizontal component of flow direction towards the drainage ditch, the wetland area, and the river. Dissolved phase contaminant concentrations were detected at a number of MW-30 PRMP monitoring locations in 3Q10.

A scope of work to further evaluate the source of dissolved groundwater contamination in this area was presented in RMT's September 3, 2009 Addendum to the USEPA approved RAWP. USEPA provided comments on the Addendum to the RAWP in an email dated December 21, 2009. Responses to the MW-30 area specific comments were submitted to the USEPA on February 1, 2010 and approved by USEPA in their email dated February 22, 2010. LEC anticipates initiating the remedial investigation and dissolved phase remedial pilot work in the MW-30 area shortly after USEPA approval of the complete RAWP Addendum #2 (see Section 6.1 below).

■ <u>Surface Water:</u> All Rockaway River samples show non-detect for all COCs. Background surface water concentrations at the Site are the current detection limits or concentrations at monitoring location SW-D-6. Surface water samples from the Eastern Drainage Channel show bis (2-ethylhexyl) phthalate (DEHP) above the background at SW-D-1 through SW-D-5. Benzene, toluene, ethylbenzene, and total xylenes (BTEX) were not detected at any surface water monitoring locations in the drainage ditch.

Section 2 Groundwater Elevations and Sampling Methodology

2.1 Groundwater Elevations and Shallow Groundwater Flow Direction

RMT measured static groundwater levels within 29 groundwater monitoring wells throughout the Site on August 23, 2010 as part of the sampling activities. As described in the 4Q09 QMR, twelve (12) monitoring wells in the MW19HS1 area were abandoned between October 13 and 15, 2009, in accordance with N.J.A.C. 7:9D *Well Construction and Maintenance; Sealing of Abandoned Wells,* in preparation for the demolition of Building 9 which occurred in December 2009, and the MW19HS1 area soil remediation which was completed between the dates of January 11, 2010 and April 23, 2010.

In addition, surface water levels were measured at 8 separate locations along the Rockaway River and 5 locations along the drainage ditch. These data were used to calculate groundwater elevations (Table 1) with respect to the National Geodetic Vertical Datum (NGVD), and evaluate the site-wide groundwater flow pattern in the shallow aquifer system. Interpretation of the calculated groundwater elevations yielded site-wide shallow groundwater contours and associated approximate flow pattern that are shown on Figure 3. The contours were prepared by utilizing the surveyed groundwater elevations from the PRMP wells, existing Site wells, and river and ditch surface water elevations (Table 1).

2.1.1 MW19HS1 AOC

As historically observed, shallow groundwater in the MW19HS1 area is generally toward the northeast. Groundwater elevation data previously obtained for the MW19HS1 area wells has continuously shown that MW-19-12 is directly downgradient from the leading edge of residual groundwater contamination. Groundwater on both the north and south sides of Ross Street locally flows towards the utility corridor located in the center of Ross Street where the large regional storm sewer line is located.

2.1.2 MW-30 AOC

Shallow groundwater flow is similar to flow that occurred before the source reduction in that shallow groundwater at the Site is recharged by Washington Forge Pond, as well as the first 600 feet of the Rockaway River below the dam ("losing" reach of river; see approximate flow direction arrows on Figure 3). The groundwater contour map also

shows that the effect of the buried slurry monolith on groundwater flow is limited in extent, mainly within and along the edges of the Source Reduction area. Specifically, the area of the monolith can be approximated by the shape of the low swale roughly defined by the 629-foot ground elevation contour, and the inferred 624 and 624.5-foot groundwater contours roughly mimic the shape of that swale. The presence of the monolith does not change the overall horizontal components of flow direction.

Surface water elevation data for the man-made drainage ditch is consistent with its current configuration as a U-shaped pond formed as a result of a downstream beaver dam (Figures 2 and 3). As shown by the flow arrows on Figure 3, the bulk of the shallow groundwater on-site becomes influent to the ditch surface water; this flow-path is supported by the occasional low detections of Site COCs in some of the ditch surface water samples (see Section 5).

As shown by a groundwater flow arrow on Figure 3, a smaller area of the Site beginning near MW-8 where the river is a "losing" stretch, hosts groundwater that flows towards and along the southeastern portion of the source reduction area and part-way into the wetland, and then towards the river near MW-35S. However, data collected during the 3Q10 event suggests that some limited groundwater mounding may occur over the small elevated area near wells MW-9 and MW-12R (Figure 3).

Further downgradient (further into the wetland area to the east), groundwater is mounded slightly and flows north into the ditch system, west back towards the PCB/source reduction area, and south to the river. This condition has remained relatively consistent over the period of remedial investigations that have been conducted on-site (minor fluctuations in the amount of flow that occurs into the ditch versus the river at the west end of the wetland area is a function of seasonal changes in rainfall infiltration and river water levels). Similarly, a lack of detectable constituents within wells MW-21 and MW-25R support the flow path from the eastern part of the wetland located further east (just west and south of the drainage ditch) back towards the western part of the wetland (impacted portion). These data, along with the fact that the construction of the regional sewer line did not encounter contamination until its construction had progressed from east to west to the western end shown on Figure 3, show that contaminant migration is not likely to occur further east.

These flow paths are supported by groundwater testing data. Specifically, relatively high levels of contamination found in wells MW-32S, 34S, and 35S support the flow path from the impacted western end of the wetland and eastern end of the source reduction excavation area. During the 3Q10 event, a groundwater depression occurred within this

area (Figure 3). This depression is likely caused by generally low groundwater levels within the wetland area as a function of seasonal variations, but also may be influenced by accumulation of free product that can slightly depress the water table (Note: only MW-32 had measurable free product: 0.02 feet thick). During other times of the year (as shown in previous monitoring reports), groundwater flow within this localized area often occurs southwards towards the river.

2.2 Sampling Methodology

RMT conducted the 3Q10 groundwater monitoring activities August 23rd through 25th, 2010. Groundwater monitoring was performed in accordance with the procedures contained in the NJDEP's *Field Sampling Procedures Manual* dated May 1992 (Revised August 2005), and methodologies outlined in our May 2001 Monitored Natural Attenuation (MNA) work plan. The MNA work plan was approved by NJDEP on January 24, 2002. A site plan showing current conditions and locations of the monitoring points sampled this quarter are shown on Figure 2.

Two sample duplicates, three trip blanks, a field (atmosphere) blank, one matrix spike/matrix spike duplicates (MS/MSDs), and two rinsate blanks were collected to satisfy Quality Assurance / Quality Control (QA/QC) requirements outlined in the revised Quality Assurance Project Plan (QAPP) presented as Appendix C in the PRMP.

The trip blanks were prepared by the laboratory and remained with the sample containers until the samples were returned to the laboratory where they were analyzed for BTEX. The blind duplicate samples were collected at SW-D-4 (Dup-01) and MW-28(s) (Dup-02) and analyzed for BTEX and DEHP. Dup-02 was also analyzed for MNA parameters. Rinsate blank RB-01 and RB-02 were collected by circulating distilled water through the cleaned bladder pump assemblies to verify that decontamination procedures were adequate. Any sampling equipment used at each well was decontaminated prior to each use utilizing an environmental detergent (Alconox®) and clean water wash followed by a distilled water rinse. The field (atmosphere) blank was taken by opening a bottle of unpreserved distilled water, leaving the bottle open during the sampling of one well, and pouring that water directly into clean sample bottles with added preservative also provided by the laboratory. RMT submitted all samples to Trace Analytical Laboratories, Inc (Trace), located in Muskegon, Michigan for BTEX, DEHP, and MNA parameter analyses (State of New Jersey Lab Certification No. MI008).

Section 3 MW-19/Hot Spot 1 Area of Concern (AOC)

A comprehensive investigative and remedial history of the MW19HS1 AOC is presented in the 4th Quarter 2007 Remedial Action Progress Report (RAPR). As outlined in the 4Q07 RAPR, the MW19HS1 AOC has been under investigation since the early 1980s. Activities began with subsurface investigation and subsequent removal of two underground storage tanks (USTs) that provided bulk liquid waste storage for former operations in Building 9. Long-term monitoring and investigation of groundwater quality within the area, and a soil gas (2006) investigation showed that naturally occurring biodegradation is occurring, resulting in a stable dissolved phase "plume" that is slowly shrinking over time, and does not pose a risk to the residences on the north side of Ross Street.

In the June 20, 2007, Notice of Deficiency (NOD) pertaining to review of the May 2006 Soil Gas Investigation Report, NJDEP stated that the extended time frame for degradation of dissolved phase groundwater contamination post source removal [USTs and surrounding soils] suggests that residual source material remains and must be addressed, and that proposed remedial measures be presented in a Remedial Action Selection Report (RASR). To support preparation of the RASR, RMT performed an investigation of potential residual source material in August 2007. Results of this investigation and a proposed remedial approach were presented in the RASR submitted to NJDEP and USEPA for review in September 2007. Data from the August investigation showed residual source material was present within the vadose zone soils, which suggests reductions in groundwater concentrations via natural attenuation could take many years before achieving appropriate cleanup levels. Subsequently, the RASR outlined a combination of vadose zone excavation coupled with an additional polishing step of mechanical blending of chemical oxidants in the saturated zone to expedite cleanup of the dissolved phase constituents identified in the 2007 investigation.

LEC, USEPA, and RMT developed a Statement of Work (SOW) for concurrent implementation of the MW19HS1 area investigation and remediation, focusing the remedial alternative for this area on soil excavation only, without an additional polishing step. This approach was detailed in the September 3, 2009 Addendum to the USEPA approved RAWP. USEPA provided comments on the Addendum to the RAWP in an email dated December 21, 2009. Responses to the MW19HS1 specific comments were submitted by RMT to USEPA on December 29, 2009 and approved by USEPA in their email dated December 30, 2009. Implementation of the MW19HS1 area investigation and remediation began on January 11, 2010 and was substantially complete

by April 23, 2010. Documentation of the remedial action was included in the Addendum to the RAR, submitted on July 19, 2010.

3.1 MW19HS1 Post-Remedial Performance Monitoring

A post-remedial groundwater monitoring well network was proposed to USEPA for approval in the July 2010 Addendum to the RAR. USEPA approval of the proposed network was received in their September 28, 2010 email requesting current MW19HS1 groundwater analytical data. Therefore, the new groundwater monitoring wells will be installed the week of November 8, 2010, in accordance with the July 2010 Addendum to the RAR. The groundwater elevations and analytical data from these new wells, combined with the data from the two remaining wells, will then be utilized to create the MW19HS1 shallow groundwater contours and evaluate flow direction and post remedial groundwater quality.

3.2 Delineation of Groundwater Contamination

3.2.1 Site Contaminants of Concern (COCs)

RMT sampled groundwater from the remaining groundwater monitoring well MW-19-12 on August 24, 2010. As shown on Table 2, and consistent with historical results, the ground water sample collected from MW-19-12 did not contain any detectable concentrations of BTEX or DEHP. Corresponding field sampling data and analytical laboratory reports are presented in Appendix A and Appendix B, respectively.

During the second quarter of 2006 (2Q06), MW-19-12 was installed between former groundwater monitoring wells MW-19-7 and MW-19-11 in order to determine if dissolved BTEX constituents existed further northeast towards the residences on Ross Street. As discussed in previous groundwater quarterly monitoring reports, data continues to show that MW-19-12 is downgradient of the former MW-19-7. In fact, the "plume" of dissolved phase constituents of concern had been shrinking prior to the remedial activities completed in the MW19HS1 area, as no exceedences of C2A NJGWQS has occurred in either the former MW-19-7 or the existing MW-19-12 since February 2007.

As discussed in prior quarterly groundwater monitoring reports, the lack of downward migration of COCs is evidenced by historical groundwater elevation data that shows consistent upward vertical hydraulic gradients in the MW19HS1 area and in all other former and existing deep/shallow well clusters across the Site. Site-wide upward hydraulic gradients would be expected because of the regional hydrogeologic features; specifically the upward gradient is a function of the regional groundwater discharge to

the Rockaway River system. The Washington Forge Pond (at an elevation of approximately 640 feet) and the Rockaway River act as constant head boundaries, and together comprise a regional aquifer discharge area. An historical lack of detectable constituents in MW-19-9D further verifies that LNAPL constituents are attenuated and hence are not migrating across Ross Street.

3.2.2 MNA Parameters and Data Analysis

Natural attenuation (NA) of petroleum hydrocarbons via biodegradation (also known as intrinsic bioremediation) has been documented to be a universal phenomenon in that it occurs at 100% of sites with BTEX hydrocarbon contamination, and is found to be protective at more than 80% of those sites (Wiedemeier, 1997). As discussed in prior quarterly groundwater monitoring reports, intrinsic bioremediation in the MW19HS1 AOC had been strong and was actively working to break down BTEX components related to the residual soil contamination.

A new groundwater monitoring well network and monitoring program was proposed in the July 2010 Addendum to the RAR. USEPA approval of the network was received in their September 28, 2010 email requesting current MW19HS1 groundwater analytical data. Therefore, the new groundwater monitoring wells will be installed the week of November 8, 2010, in accordance with the July 2010 Addendum to the RAR. Analysis of MNA parameters will begin in this area during the 4Q10 quarterly monitoring event currently scheduled to be completed in December 2010.. Because of the strong MNA documented above and in previous reports, RMT anticipates that any remaining contaminants dissolved in groundwater will attenuate much more rapidly.

Section 4 MW-30 Area of Concern (AOC)

The 2005 source reduction was implemented to remove as much of the free-product mass as possible. It was anticipated that some dissolved-phase contamination would remain in groundwater following the source reduction, and that residual groundwater contamination was to be addressed as part of a formal ROD amendment. The 2005 source reduction was a success in that no free product has been measured within the source reduction area since completion of that work and implementation of the PRMP. Residual contamination is being monitored and addressed as described below. A photographic summary of the Site is included in Appendix C.

The analytical results from all monitoring events are summarized in Tables 2 through 5. The shallow wells that lie within the central (MW-28 cluster) and downgradient (MW-30 cluster) portions of the source reduction area both have screens that were placed below the slurry monolith. At both locations, intermediate monitoring wells MW-28i and MW-30i were installed and screened approximately 5 feet below the bottom of the shallow well screen; 15 to 20 ft bgs and 10 to 15 ft bgs, respectively.

In 3Q10 low levels of dissolved groundwater contamination continue to be found in the source reduction area interior monitoring wells MW-28s and MW-28i (Table 2). Benzene and toluene have not been detected in the MW-28 well cluster since 4Q06. Ethylbenzene and xylenes have only been detected once in MW-28i since 4Q06. Samples collected from MW-28s contained levels of dissolved ethylbenzene and xylenes; however, the concentrations are decreasing over time and no BTEX constituents are present at levels that exceed current C2A NJGWQS. Dissolved DEHP concentrations continue to fluctuate at both MW-28s and MW-28i; however, the overall trend of DEHP concentration appears to be downward.

Site COCs also continue to be found dissolved in groundwater from source reduction area downgradient well MW-30s. However, only DEHP remains above C2A NJGWQS; all BTEX concentrations have been either non-detect or below C2A NJGWQS since 1Q08. The concentration of DEHP in well MW-30s, while fluctuating somewhat from quarter to quarter, appears to be trending downward. Since 1Q07, no Site COCs have been detected in wells MW-30i and MW-30d, with the exception of several small detections of DEHP in MW-30i, just slightly above the detection limit, and a small detection of ethylbenzene and total xylenes in 2Q10. This indicates that the vertical extent of Site constituents of concern in the vicinity of the MW-30 cluster is limited to only the top five feet or less of the shallow water table (within the first five feet of aquifer immediately below the slurry monolith).

As part of the 3Q10 sampling event, RMT also sampled the five (5) wetland area wells (MW-31s, MW-32s, MW-33s, MW-34s, and MW-35s) for groundwater quality. The location of these wells, with respect to the source reduction and wetland areas, are shown on Figures 2 & 3; all of these wells are located outside of and downgradient from the source reduction excavation area.

During 3Q10, groundwater samples collected from all of the wetland area wells had concentrations of DEHP above the higher of the C2A NJGWQS and PQL. Groundwater samples collected from MW-31s, MW-32s, and MW-35s also contained concentrations of benzene, ethylbenzene and total xylenes above the higher of the C2A NJGWQS and PQL (Table 2) (Figure 4). The concentration trends of dissolved benzene, ethylbenzene, and xylenes will continue to be carefully monitored. Furthermore, additional investigations to determine nature and extent is proposed for this area as described in the September 3, 2009 Addendum to the USEPA approved RAWP. The Addendum focuses on characterization and gathering data that will be used to develop a means to prevent further discharge of groundwater contamination into the ditch and Rockaway River.

Section 5 Surface Water Area of Concern (AOC)

The Rockaway River adjacent and downstream from the LEC site is classified as a Category 1 fresh water trout maintenance stream (FW2-TM(C1); ref. Surface Water Quality Standard Reference: N.J.A.C 7:9B-1.15 (e), Table 3 January 2010; (Dover) - Washington Pond outlet downstream to Rt. 46 bridge). In N.J.A.C. 7:9B-1.4, "Category one waters" means those waters designated in the tables in N.J.A.C. 7:9B-1.15(c) through (g), for purposes of implementing the antidegradation policies set forth at N.J.A.C. 7:9B-1.5(d), for protection from measurable changes in water quality based on exceptional ecological significance, exceptional recreational significance, exceptional water supply significance, or exceptional fisheries resource(s) to protect their aesthetic value (color, clarity, scenic setting) and ecological integrity (habitat, water quality, and biological functions). As such, RMT compared Site COC concentrations detected in the drainage ditch and Rockaway River samples against background concentrations found in upgradient sample SW-R-6, collected below the Washington Forge Pond dam, at the upgradient end of the Site.

Due to a laboratory error, the BTEX samples collected from each of the surface water sampling locations during the 3Q10 event were analyzed outside their applicable hold time. Upon notification of this fact from the lab, surface water samples were recollected and analyzed within the appropriate hold time. Both sets of results are listed in Table 5.

5.1 Eastern Drainage Channel

As part of the 3Q10 event, RMT sampled five (5) points (SW-D-1, SW-D-2, SW-D-3, SW-D-4, and SW-D-5) within the eastern drainage channel that separates the adjacent Air Products property from the LEC site and the adjacent Wharton Enterprises property for surface water quality. This sampling was conducted at the request of NJDEP as outlined in their letter dated March 23, 2005.

All surface water sample locations are shown on Figure 2. The laboratory analytical results for these drainage ditch samples are summarized on Table 5.

BTEX constituents were not detected at any surface water monitoring locations in the ditch. DEHP was detected above the NJSWQC in samples collected from each of the five ditch surface water sampling locations. Migration of Site COCs into the ditch environment will be addressed during the upcoming on-site investigations that are included in the USEPA approved September 2009 Addendum to the approved 2004 Remedial Action Workplan.

5.2 Rockaway River

In addition to the drainage channel, RMT also collected seven (7) surface water samples from the Rockaway River (Ref. Figure 2 and Table 5).

Rockaway River samples collected at surface water sampling locations SW-R-1, SW-R-2, SW-R-3, and SW-R-4 were non-detect for Site COCs.

River sample SW-R-6 was taken just downstream of the Washington Forge Pond dam. As a result of USEPA comments in an email dated December 21, 2009, this location now serves as the background monitoring location for the Site. Surface water samples SW-R-1 through SW-R-4, are compared to the results of SW-R-6, per N.J.A.C. 7:9B-1.5 (d) 6iii. Site COCs were not detected in the surface water sample SW-R-6.

Another surface water sample was collected in the ditch near its intersection with the Rockaway River (approximately 10 feet upstream in the drainage channel; see Figure 2). This location represents the surface water discharge point from the ditch/beaver pond into the Rockaway River. Similar to the other river samples collected, Site COCs were not detected in the "Ditch-River Confluence" sample DRC-2.

Surface water sampling at the eastern drainage ditch as well as the Rockaway River and Washington Forge Pond will continue to take place during each quarterly monitoring event. Specifics regarding surface water sampling locations, frequency and analytes are presented in the PRMP and associated QAPP.

Section 6 Additional and Future Project Activities

LEC, USEPA and RMT designed a SOW to accompany the UAO. Both the UAO and associated SOW were executed in August 2009. The following sections briefly outline continuing UAO and SOW required activities anticipated for completion over the next three to six months. An updated Master Project Schedule is presented in Appendix D.

6.1 General and Administrative Site Scope and Tasks

- The annual congressional (Congressman Frelinghuysen) Site visit, as part of his visit to multiple Superfund sites in his district, was tentatively scheduled to occur on August 10, 2010. This visit was later postponed by the Congressman and has not yet been rescheduled.
- Finalize the Community Involvement Plan (CIP).
- Finalize the Revised Remedial Action Work Plan (RAWP) Addendum and associated Uniform Federal Policy (UFP) compliant QAPP.

6.2 Individual Areas of Concern (AOCs) Scopes and Tasks

6.2.1 MW-30 Area of Concern

Approval and receipt of the Flood Hazard Area Permit from the NJDEP DLUR was received on August 19, 2010. Remedial investigation and pilot testing activities outlined in the USEPA approved RAWP Addendum are anticipated to begin in 2Q2011, following USEPA approval of the complete RAWP Addendum #2.

6.2.2 MW19/Hot Spot 1 Area of Concern

- Following a USEPA request, installation of the post remedial performance monitoring well network as proposed in the RAR Addendum submitted in July 2010 will occur the week of November 8, 2010.
- Removal of silt fence in the stockpile area adjacent to the MW19HS1 soil excavation was completed on October 13, 2010.
- Abandon monitoring wells MW-18S and MW-18I in preparation for the Morris County's North Main Street extension project.

6.3 Wetland Monitoring, Invasive Species Control, and Reporting

The 2009 Compensatory Mitigation Monitoring Report was submitted on December 28, 2009. 2009 is considered the fifth and final growing season where semiannual monitoring and reporting is required by the 2005 GP-4 wetlands permit. However, as outlined in the report, annual monitoring and invasive species control events will continue on a semi-annual basis as required by permit conditions until agency sign-off is obtained. Additional wetland restoration, monitoring and reporting issues were addressed in the Addendum to the USEPA approved Remedial Action Work Plan (RMT, April 2004), submitted September 3, 2009. USEPA provided comments on the Addendum to the RAWP in an email dated December 21, 2009. Responses to the MW-30 area specific comments were submitted to the USEPA on February 1, 2010 and approved by USEPA in their email dated February 22, 2010.

The fall 2010 wetland monitoring and invasive species control activities were completed during the week of September 6, 2010. The annual report will be submitted in December 2010.

Tables

TABLE 1 Dayco Corporation/L.E. Carpenter Superfund Site Borough of Wharton, Morris County, New Jersey Quarterly Groundwater Elevations

				PROFESSIONAL SU	RVEY INFORMAT	TION (2)									
WELL LOCATION	MONITORING DEVICE TYPE	BASELINE LO	CATION (FT)			EL	EVATION (FT. M	ISL)			QUARTERLY	MEASUREMEN	TINFORMATIO	N	
WELLLOCATION	MONITORING DEVICE TYPE	NJ State Plane	Coordinates	GEODETIC I	LOCATION				MEAS.	PRODUCT	WATER	PRODUCT	WATER	PRODUCT	CORRECTED
		(Y) North	(X) East	LATITUDE	LONGITUDE	GROUND (6)	OUTER CASING	INNER WELL CASING	DATE	DEPTH	DEPTH	ELEVATION	ELEVATION	THICKNESS (FT)	WATER ELEVATION
GEI-2I	Piezometer	754573.99	470499.76	40° 54' 17.4"	74 ⁰ 34' 43.1"	635.32	637.75	637.60			Aban	doned Octobe	er 13, 2009		
GEI-2S	Piezometer	754566	470506.18	40 ⁰ 54' 17.3"	740 34' 43.0"	634.86	637.27	637.07			Aban	doned Octobe	er 13, 2009		
GEI-3I	Piezometer	754311.79	470453.7	400 54' 14.8"	740 341 43.71	636.96	639.39	639.25	23-Aug-10		14.22		625.03		
MW-8	Monitoring Well	754099.29	471251.06	40° 54' 12.7"	74° 34' 33.3"	627.39	629.96	628.19	23-Aug-10		3.59		624.60		
MW-9	Monitoring Well	754075.94	471111.03	40 ⁰ 54' 12.5"	74 ⁰ 34' 35.1"	628.61	631.09	629.58	23-Aug-10		4.62		624.96		
MW-12S(R)	Monitoring Well	754055.97	471042.34	40 ⁰ 54' 12.3"	74 ⁰ 34' 35.9"	631.57	634.26	633.73	23-Aug-10		9.27		624.46		
MW-13S	Monitoring Well	754353.97	471370.04	40° 54' 15.3"	74° 34' 31.7"	627.74	630.80	630.63	23-Aug-10		4.13		626.50		
MW-13S(R)	Monitoring Well	754333.07	471365.71	400 54' 15.0"	74° 34' 31.8"	627.66	630.36	629.99	23-Aug-10		5.63		624.36		
MW-13I	Monitoring Well	754337.8	471360.31	40 ⁰ 54' 15.1"	74 ⁰ 34' 31.9"	627.76	630.28	630.06	23-Aug-10		5.79		624.27		
MW-15S	Monitoring Well	754326.58	470891.83	40 ⁰ 54' 15.0"	74 ⁰ 34' 38.0"	634.23	636.43	636.17	23-Aug-10		11.66		624.51		
MW-15I	Monitoring Well	754325.8	470901.47	400 54' 15.0"	740 34' 37.9"	634.14	636.28	636.06	23-Aug-10		11.55		624.51		
MW-17(S)	Monitoring Well	754109.68	470759.85	400 54' 12.8"	740 341 39.7"	632.35	634.32	634.19	23-Aug-10		9.68		624.51		
MW-18S	Monitoring Well	754677.95	471117.26	400 54' 18.4"	740 341 35.01	627.62	630.88	630.66	23-Aug-10		5.94		624.72		
MW-18I	Monitoring Well	754675.11	471106.07	400 54' 18.4"	74 ⁰ 34'35.2"	627.75	630.59	630.44	23-Aug-10		5.84	- 10.1	624.60		
MW-19	Monitoring Well	754537.15	470454.45	400 54' 17.1"	74 ⁰ 34'43.7"	636.22	636.23	635.90				doned Octobe			
MW-19-1	Monitoring Well	754534.52	470427.63	400 54' 17.0"	74 ⁰ 34'44.0"	635.93	635.96	635.64				doned Octobe			
MW-19-2	Monitoring Well	754551.81	470429.56	400 54' 17.2"	740 34' 44.0"	636.46	636.50	636.30				doned Octobe doned Octobe			
MW-19-3	Monitoring Well	754539.4	470394.2	400 54' 17.1"	74 ⁰ 34'44.5"	636.97	637.06	636.70							
MW-19-4	Monitoring Well	754505.39	470432.08	400 54' 16.7"	74°34'44.0"	635.69 635.93	635.76 635.93	635.43				doned Octobe doned Octobe			
MW-19-5	Monitoring Well	754565.53 754578.87	470470.75 470443.1	400 541 17.3"	74 ⁰ 34' 43.5" 74 ⁰ 34' 43.8"	636.17	636.16	635.56 635.82				doned Octobe			
MW-19-6	Monitoring Well	754578.87 754595.66	470501.7	40° 54' 17.5" 40° 54' 17.6"		635.31	635.36	635.82					,		
MW-19-7 MW-19-8	Monitoring Well Monitoring Well	754617.42	470493.65	40° 54° 17.6° 40° 54' 17.8°	74034'43.1"	635.82	635.82	635.36	22 A 10		10.31	doned Octobe	625.05		
MW-19-8 MW-19-9D	Monitoring Well	754590	470493.65	40° 54' 17.8" 40° 54' 17.9"	74 ⁰ 34' 43.2" 74 ⁰ 34' 42.4"	636.39	636.41	636.10	23-Aug-10 23-Aug-10		10.31		625.70		
MW-19-10		754625.75	470590.81	40 54 17.9	74 34 42.4	634.72	634.81	634.43	23-Aug-10			doned Octobe			L
MW-19-11	Monitoring Well Monitoring Well	754623.75	470546.95	40 ⁰ 54' 18.2"	74 ⁰ 34' 41.0"	634.22	634.26	633.67				doned Octobe	,		
MW-19-12	Monitoring Well	754627.53	470529.72	40 54 18.2 40 ⁰ 54' 18.31"	74 34 41.0 74 ⁰ 34' 41.27"	634.93	634.93	634.46	23-Aug-10		9.61		624.85		
MW-21 (3)	Monitoring Well	754240.97	471645.78	40° 54' 14.1"	74 34 41.27 74 ⁰ 34' 28.2"	624.57	628.49	628.20	23-Aug-10		4.32		623.88		
MW-25(R) (3)	Monitoring Well	754201.83	471518.21	40° 54' 13.7"	74° 34' 29.8"	624.65	626.77	626.62	23-Aug-10		2.65		623.97		
MW-27s	Monitoring Well	754253.78	470672.69	40° 54' 14.613"	74 ⁰ 34' 39.402'	635.82	635.78	635.07	23-Aug-10		10.70		624.37		
MW-28S	Monitoring Well	754243.26	471034.34	40° 54' 14.512"	74 ⁰ 34' 34.692'	628.20	631.28	631.14	23-Aug-10		7.05		624.09		
MW-28I	Monitoring Well	754242.87	471031.19	40° 54' 14.508"	74 ⁰ 34' 34.733'	628.25	631.20	631.04	23-Aug-10		6.97		624.07		
MW-29S	Monitoring Well	754411.14	471187.85	40° 54' 16.172"	74 ⁰ 34' 32.694'	629.94	632.83	632.66	23-Aug-10		8.63		624.03		
MW-30S	Monitoring Well	754281.65	471265.12	40° 54' 14.893"	74 ⁰ 34' 31.686'	624.99	628.24	628.24	23-Aug-10		4.51		623.73		
MW-30I	Monitoring Well	754286.42	471263.15	40° 54' 14.941"	74 ⁰ 34' 31.712'	625.14	628.15	628.01	23-Aug-10		4.25		623.76		
MW-30D	Monitoring Well	754290.05	471261.2	40° 54' 14.976"	74 ⁰ 34' 31.737'	625.20	628.22	628.02	23-Aug-10		4.19		623.83		
MW-31S	Monitoring Well	754241.65	471341.5	40° 54' 14.499"	74° 34' 30.691'	627.94	630.00	629.82	23-Aug-10		6.50		623.32		
MW-32S	Monitoring Well	754207.08	471359.83	40° 54' 14.157"	74 ⁰ 34' 30.452'	628.15	630.33	630.18	23-Aug-10	7.49	7.51		622.67	0.02	622.69
MW-33S	Monitoring Well	754170.51	471311.04	40° 54' 13.796"	74° 34' 31.087'	628.85	631.06	630.91	23-Aug-10		6.65		624.26		
MW-34S	Monitoring Well	754178.83	471399.49	40° 54' 13.879"	74 ⁰ 34' 29.935'	628.07	629.97	629.93	23-Aug-10		7.75		622.18		
MW-35S	Monitoring Well			0	0										
		754179.62	471445.17	40° 54' 13.887"		627.43	629.59	629.19	23-Aug-10		5.84		623.35		
SG-R2 ⁽³⁾	Rockaway River Monitoring Point	754056.10	470946.46	400 54' 12.662"		629.41	-	-	23-Aug-10		2.91		626.50		
SW-R-1 (4)	Rockaway River Monitoring Point	754125.56	471523.00	400 54' 13.353"		625.87	-	-	23-Aug-10		2.69		623.18		
SW-R-2 (4)	Rockaway River Monitoring Point	754112.82	471426.51	40 ⁰ 54' 13.226"		626.54	-	-	23-Aug-10		2.80		623.74		<u> </u>
SW-R-3 (4)	Rockaway River Monitoring Point	754149.30	471368.76	40° 54' 13.586"	74 ⁰ 34' 30.335'	626.25	-	-	23-Aug-10		1.85		624.40		
SW-R-4 (4)	Rockaway River Monitoring Point	754088.00	471279.58	40° 54' 12.980"	74° 34' 31.496'	627.57	-	-	23-Aug-10		2.61		624.96		
SW-R-5 (4)	Rockaway River Monitoring Point	754314.04	470408.85	40° 54' 15.206"	74 ⁰ 34' 42.839'	640.66		-	23-Aug-10		1.75		638.91		
SW-R-6 (4)	Rockaway River Monitoring Point	754071.52	470697.75	400 54' 12.812"	74 ⁰ 34' 39.073'	631.68	-	-	23-Aug-10		NM-damaged				
SW-D-1 (5)	Drainage Channel Staff Gauge	754428.36	471240.17	40° 54' 16.343"	74 ⁰ 34' 32.013'	625.75	-	-	23-Aug-10		2.14		623.61		
SW-D-2 (5)	Drainage Channel Staff Gauge	754285.35	471361.22	40° 54' 14.931"	74 ⁰ 34' 30.435'	626.07	-	-	23-Aug-10		2.39		623.68		
SW-D-3 ⁽⁵⁾	Drainage Channel Staff Gauge	754381.23	471548.18	40° 54' 15.880"	74° 34' 28.001'	625.70	-	-	23-Aug-10		1.91		623.79		
SW-D-4	Drainage Channel Monitoring Point	754297.19	471292.08	40° 54' 15.047"	74° 34' 31.355'	624.93	-	_	23-Aug-10		NM-damaged				
				_			-	-							-
SW-D-5	Drainage Channel Monitoring Point	754223.14	471920.10	400 541 14.321"	74 ⁰ 34' 23.155'	626.86	-	-	23-Aug-10		NM-dry				-
DRC-2	Drainage Channel Monitoring Point	754117.49	471971.58	40° 54' 13.277"	74° 34' 22.483'	623.29	-	-	23-Aug-10		2.16		621.13		

- POOTNOTES

 (1) Reference elevation measured at the top of a 3.33 ft. Staff gauge. Water depth based on a visual observation of the water level on the Staff gauge.
 (2) Horizontal Datum: New Jersey State Plane Coordinate System NAD 83. Vertical Datum: NAVD 88
 (3) New SCR-2 Freplaced the old SCR-2 installed in Nov. 1998. Professional survey performed by James M. Stewart, Inc., Philadelphia, PA May 2004. SC-R2 is a chiseled arrow on Iron Beam
 (4) As outlined in the PRMP the six (6) new Rockaway River monitoring points reference survey elevation was shot at the top of a stake installed to each point
 (5) SW-D-1, SW-D-2 and SW-D-3 were resurveyed points at the top of the stake that secures each drainage ditch staff gauge.

 These points were reshot to insure the reference elevation integrity remained for each of the 3 staff gauges as a result of source reduction remedial disturbance.

 (6) Ground reference elevation for SC and SW series gauges and monitoring points is a point specific to each devise (Le, top of stake, to of gauge, notched point on concrete or iron etc)
 (7) Corrected water level elevations utilize an average specific gravity of 0.9363 (RMT, Inc. product sampling in October 1999)

_			A	NALYTICAL PARAMETERS	3	r	
MONITORING WELLS	SAMPLE DATE	QUARTER	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2- Ethylhexylphthala (DEHP)
-		UNITS	ug/l	ug/l	ug/l	ug/l	ug/l
		SOLUBILITY LIMIT	1,700,000	152,000	515,000	175,000	334
	PRACTICAL QUAN	TITATION LIMIT [PQL]	1	2	1	2	3
NEW JERSEY GROUNDWATER O			0.2	700	600	1,000	2
		OF NJGWQS AND PQL	1	700	600	1,000	3
MW19-12				100		1,722	
WIVV 19-12	21-Jun-06	2	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	12-Sep-06	3	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	7-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	7-Nov-06	4 ^{duplicate}	< 0.2	< 0.2	< 0.2	< 0.6	< 0.9
	6-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	26-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	26-Jun-07	2 ^{duplicate}	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	11-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	4-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	19-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Dilution for DEHP 1.11	6-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.1
	22-Jul-08	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	28-Oct-08	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	13-Jan-09 7-Apr-09	1 2	< 0.9 < 0.9	< 0.8 < 0.8	< 0.8	< 0.9 < 0.9	< 1.0 < 0.9
-	21-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0
	10-Nov-09	4	< 0.9	< 0.8	< 0.8	< 0.9	< 0.9
	15-Feb-10	1	< 0.5	< 0.5	< 0.5	< 1.5	< 0.96
	20-Apr-10	2	< 0.5	< 0.5	< 0.5	< 1.5	< 0.98
	24-Aug-10	3	< 0.5	< 0.5	< 0.5	< 1.5	< 0.96
MW 0							
MW-8	1.0 00	0					
	1-Sep-89	3					
	1-Jan-90 23-Jul-08	1 3	< 1.0	< 1.0	< 5.0	15	< 1.0
	29-Oct-08	4	< 0.2	< 0.2	< 0.2	< 0.6	J 2.0
	14-Jan-09	1	< 0.9	< 0.8	< 0.8	< 0.9	8.0
	8-Apr-09	2 ⁽⁵⁾	< 0.9	< 0.8	< 0.8	< 0.9	J 3.0
	21-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	J 2.0
	11-Nov-09	4	< 0.9	< 0.8	< 0.8	< 0.9	J 3.0
	15-Feb-10	1	< 0.5	< 0.5	< 0.5	< 1.5	3.9
	20-Apr-10	3	< 0.5	< 0.5	< 0.5	< 1.5	16 4.8
	24-Aug-10	3	< 0.5	< 0.5	< 0.5	4.2	4.8
MW-25R							
	21-Jun-06	2	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	21-Jun-06	2 ^{duplicate}	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	13-Sep-06	3	< 0.2	< 0.2	J 0.5	< 0.6	J 1.0
	7-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	8-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	26-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	26-Jun-07	2 ^{duplicate}	< 1.0	< 1.0	< 5.0	< 3.0	1.6
	11-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Dilution factor for DEHP is 1.3	6-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.3
	19-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Dilution for DEHP 1.29	6-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.3
-	22-Jul-08 29-Oct-08	3 4	< 1.0 < 0.2	< 1.0 < 0.2	< 5.0 J 0.3	< 3.0 < 0.6	< 1.0 < 1.0
	15-Jan-09	1	< 0.2	< 0.8	< 0.8	< 0.9	< 0.9
	7-Apr-09	2 ⁽⁵⁾	< 0.9	< 0.8	< 0.8	< 0.9	J 1.0
	22-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	< 0.9
	11-Nov-09	4	< 0.9	< 0.8	< 0.8	< 0.9	J 1.0
	15-Feb-10	1	< 0.5	< 0.5	< 0.5	< 1.5	< 1.0
	20-Apr-10	3	< 0.5	< 0.5	< 0.5	< 1.5	< 0.98
	25-Aug-10	3	< 0.5	< 0.5	< 0.5	< 1.5	< 0.99
MW-27s							
	22-Jun-06	2	J 0.6	3.7	3.9	14	J 3.0
	11-Sep-06	3	< 0.2	< 0.2	< 0.2	< 0.6	J 2.0
	7-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	J 1.0
	7-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	26-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	11-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	1.2
Dilution factor for DEHP is 1.4	4-Dec-07 19-Feb-08	<u>4</u> 1	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	< 1.4 < 1.2
Dilution feature for DELID : 4 40		2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.2
Dilution factor for DEHP is 1.18 Dilution factor for DEHP is 1.18	/-Mav-08				- 0.0	- 5.0	
Dilution factor for DEHP is 1.18 Dilution factor for DEHP is 1.18	7-May-08 23-Jul-08	3		< 1.0	< 5.0	< 3.0	< 1.0
			< 1.0 < 0.2	< 1.0 < 0.2	< 5.0 < 0.2	< 3.0 < 0.6	< 1.0 < 1.0
	23-Jul-08	3	< 1.0				

			Α	NALYTICAL PARAMETER	s				
MONITORING WELLS	SAMPLE DATE	QUARTER	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2- Ethylhexylphthalate (DEHP)		
		UNITS	ug/l	ug/l	ug/l	ug/l	ug/l		
		SOLUBILITY LIMIT	1,700,000	152,000	515,000	175,000	334		
	PRACTICAL QUAN	TITATION LIMIT [PQL]	1	2	1	2	3		
NEW JERSEY GROUNDWATER			0.2	700	600	1,000	2		
NEW JERSET GROUNDWATER									
		OF NJGWQS AND PQL	1	700	600	1,000	3		
	10-Nov-09	4	< 0.9	< 0.8	< 0.8	< 0.9	< 0.9		
	14-Feb-10	1	< 0.5	< 0.5	< 0.5	< 1.5	< 1.0		
	20-Apr-10	2	< 0.5	< 0.5	< 0.5	< 1.5	< 1.0		
	24-Aug-10	3	< 0.5	< 0.5	< 0.5	< 1.5	< 0.99		
MW-28s									
Dilution factor for BTEX 5	21-Jun-06	2	J 1.6	560	< 1.0	1,400	100		
Dilution factor for Xylene is 5, DEHP is 10	13-Sep-06	3	J 0.2	210	< 0.2	450	570		
Dilution factor for Xylene is 5, DEHP is 10	13-Sep-06	3 ^{duplicate}	J 0.3	220	< 0.2	470	550		
Dilution factor for DEHP 10	7-Nov-06	4	< 0.2	92	< 0.2	180	250		
Dilution factor for DEHP is 20	7-Feb-07	1	< 1.0	70	< 5.0	150	260		
Dilution factor for DEHP is 20	7-Feb-07	1 duplicate	< 1.0	58	< 5.0	130	250		
	27-Jun-07	2	< 1.0	30	< 5.0	56	28		
Dilution factor for DEHP is 5	12-Sep-07	3	< 1.0	17	< 5.0	42	49		
Dilution for DEHP is 1.2	6-Dec-07	4	< 1.0	32	< 5.0	96	14		
Dilution for DEHP is 20	20-Feb-08	1	< 1.0	14	< 5.0	36	39		
Dilution for DEHP is 11.1	7-May-08	2	< 1.0	2.7	< 5.0	6.6	160		
Dilution for DEHP is 20	23-Jul-08	3	< 1.0	37	< 5.0	93	420		
Dilution for DEHP is 10	23-Jul-08	3 ^{duplicate}	< 1.0	41	< 5.0	100	290		
Dilution factor for DEHP 10	29-Oct-08	4	< 0.2	4.3	< 0.2	15	300		
Dilution factor for DEHP 10	15-Jan-09	1	< 0.9	17	< 0.8	64	140		
Dilution factor for DEHP 10	8-Apr-09	2	< 0.9	39	< 0.8	100	200		
Dilution factor for DEHP 10 Dilution factor for DEHP 10	22-Jul-09	3	< 0.9	18	< 0.8	53	180		
Dilution factor for DEHP 5	12-Nov-09	4	< 0.9	10	< 0.8	67	130		
Dilution factor for DEHP 5	16-Feb-10	1	< 0.5	8.9	< 0.5	27	65		
		1 duplicate							
Dilution factor for DEHP 2	16-Feb-10		< 0.5	8.8	< 0.5	27	100		
Dilution factor for DEHP 5	21-Apr-10	2	< 0.5	22	< 0.5	71	240		
	25-Aug-10	3	< 0.5	5.7	< 0.5	12	39		
	25-Aug-10	3 ^{duplicate}	< 0.5	< 0.5	< 0.5	< 1.5	29		
MW-28i									
Dilution factor for BTEX 5	22-Jun-06	2	< 1.0	480	< 1.0	1,300	270		
Dilution factor for Xylene and DEHP is 5	13-Sep-06	3	< 0.2	72	J 0.6	520	180		
	7-Nov-06	4	< 0.2	10	< 0.2	14	90		
Dilution factor for DEHP is 10	7-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	76		
	27-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	3.9		
	12-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	21		
Dilution for DEHP is 1.3	6-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	1.4		
Dilution for DEHP is 5	20-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	31		
Dilution for DEHP is 1.11	7-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	28		
	23-Jul-08	3	< 1.0	< 1.0	< 5.0	< 3.0	49		
	29-Oct-08	4	< 0.2	< 0.2	< 0.2	< 0.6	110		
	15-Jan-09	1	< 0.9	< 0.8	< 0.8	< 0.9	61		
	15-Jan-09	1 duplicate	< 0.9	< 0.8	< 0.8	< 0.9	41		
Partition to Bernard	8-Apr-09	2 ⁽⁵⁾	< 0.9	< 0.8	< 0.8	< 0.9	240		
Dilution factor for DEHP 10	22-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	19		
	12-Nov-09	4	< 0.9	< 0.8	< 0.8	< 0.9	15		
		4 duplicate							
	12-Nov-09 16-Feb-10		< 0.9	< 0.8	< 0.8	< 0.9	11		
	21-Apr-10	1 2	< 0.5 < 0.5	< 0.5 2.7	< 0.5	< 1.5 9.4	12 26		
	25-Apr-10 25-Aug-10	3	< 0.5	< 0.5	< 0.5 < 0.5	9.4 < 1.5	11		
	20-Aug-10	3	< 0.5	< 0.0	< 0.5	C.1.2	11		
MW 20-				+		+	+		
MW-29s	00 1 1								
	22-Jun-06	2	< 0.2	J 0.2	< 0.2	J 0.6	J 1.0		
	14-Sep-06	3	< 0.2	< 0.2	< 0.2	< 0.6	J 1.0		
	9-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	31		
	7-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0		
	27-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0		
	11-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0		
Deillution for DEHP 1.2	5-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.2		
	19-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0		
Dilution factor for DEHP 1.05 [DUP-02]	19-Feb-08	1 duplicate	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0		
Dilution factor for DEHP 1.18	7-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.2		
	22-Jul-08	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0		
	29-Oct-08	4	< 0.2	< 0.2	J 0.3	< 0.6	< 1.0		
	29-Oct-08	4 ^{duplicate}	< 0.2	< 0.2	J 0.2	< 0.6	< 0.9		
	15-Jan-09	1	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0		
	7-Apr-09	2 ⁽⁴⁾	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0		
	21-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0		
	11-Nov-09	4	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0		
	15-Feb-10	1	< 0.5	< 0.5	< 0.5	< 1.5	< 1.0		
	20-Apr-10	2	< 0.5	< 0.5	< 0.5	< 1.5	< 1.0		
	24-Aug-10	3	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95		
	27-71ug-10	J	~ U.J	\ U.J	\ U.J	× 1.5	\ U.3J		
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			ANA	LYTICAL PARAMETERS			
MONITORING WELLS	SAMPLE DATE	QUARTER	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2- Ethylhexylphthalate (DEHP)
		UNITS	ug/l	ug/l	ug/l	ug/l	ug/l
		SOLUBILITY LIMIT	1,700,000	152,000	515,000	175,000	334
		TITATION LIMIT [PQL]	1	2	1	2	3
NEW JERSEY GROUNDWATER			0.2	700	600	1,000	2
	HIGHER (OF NJGWQS AND PQL	1	700	600	1,000	3
MW-30s	04 1 00		1.0	4 000	1.4.0		=10
Dilution factor for BTEX 20, DEHP is 500	21-Jun-06 13-Sep-06	3	< 1.0 < 4.0	1,200 1,200	J 1.3 46.0	3,900 5,100	740 19,000
Dilution factor for BTEX 5, DEHP is 100	9-Nov-06	4	< 1.0	540	< 1.0	2,600	2,500
	7-Feb-07	1	NS - frozen				
Dilution factor for BTEX 5, DEHP is 2000	26-Jun-07	2	2.1	300	< 25	1,200	13,000
Dilution factor for DEHP is 50 Dilution factor for DEHP is 200	12-Sep-07 12-Sep-07	3 3 ^{duplicate}	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	880 1,700
Dilution factor for DEHP is 200 Dilution factor for DEHP is 12, BTEX is 5	6-Dec-07	4	1.5	34.0	110	260	200
Dilution factor for DEHP is 111, BTEX is 5	20-Feb-08	1	< 5.0	110	< 25	480	3,800
Dilution factor for Total Xylene is 5, DEHP is 1.25	8-May-08	2	< 1.0	100	< 5.0	460	9.6
DEHP Dilution 5	22-Jul-08 29-Oct-08	3	< 1.0 < 0.2	14 80	< 5.0 J 0.2	86 290	80 180
DENF DIIIIIII S	15-Jan-09	1	NS - frozen	NS - frozen	NS - frozen	NS - frozen	
Dilution factor for DEHP is 50	8-Apr-09	2	< 0.9	74	< 0.8	340	1,100
Dilution factor for DEHP is 10		3	< 0.9	8	< 0.8	34	550
Dilution factor for DEHP is 10	11-Nov-09 15-Feb-10	1	< 0.9 NS - frozen	63 NS - frozen	< 0.8 NS - frozen	140 NS - frozen	350 NS - frozen
Dilution factor for DEHP is 10	21-Apr-10	2	< 0.5	5.4	< 0.5	15	480
Dilution factor for DEHP is 5	21-Apr-10	2 ^{duplicate}	< 0.5	6	< 0.5	22	460
Dilution factor for DEHP is 2	24-Aug-10	3	< 0.5	12	< 0.5	19	140
MW-30i	04 lum 00	2	100	20	4.4	470	100
	21-Jun-06 13-Sep-06	3	J 0.3 < 0.2	38 1.5	1.4 < 0.2	170 4.9	J 2.0
	8-Nov-06	4	< 0.2	J 0.2	< 0.2	< 0.6	J 1.0
	8-Nov-06	4 ^{duplicate}	< 0.2	J 0.2	< 0.2	< 0.6	< 1.0
	7-Feb-07	1	NS - frozen	NS - frozen	NS - frozen	NS - frozen	
	26-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	12-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	1.3
Dilution factor for DEHP 1.2	6-Dec-07	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.2
Dilution factor for DEHP 1.05 Dilution factor for DEHP 1.05	19-Feb-08 7-May-08	2	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	< 1.0 < 1.0
Dilution factor for DEHP 1.18		2 ^{duplicate}	< 1.0	< 1.0	< 5.0	< 3.0	< 1.2
	22-Jul-08	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	29-Oct-08	4	< 0.2	< 0.2	< 0.2	< 0.6	J 2.0
	15-Jan-09 8-Apr-09	1 2	NS - frozen < 0.9	NS - frozen < 0.8	NS - frozen < 0.8	NS - frozen	NS - frozen J 3
	23-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	J 2
	23-Jul-09	3 ^{duplicate}	< 0.9	< 0.8	< 0.8	< 0.9	J 3
	11-Nov-09	4	< 0.9	< 0.8	< 0.8	< 0.9	J 1
	15-Feb-10	1 2	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	21-Apr-10 24-Aug-10	3	< 0.5 < 0.5	1.9 < 0.5	< 0.5 < 0.5	2.0 < 1.5	1.7 1.7
MW-30d							
	21-Jun-06	2	< 0.2	< 0.2	< 0.2	< 0.6	J 3.0
	14-Sep-06 8-Nov-06	3	< 0.2 < 0.2	< 0.2 < 0.2	< 0.2 < 0.2	< 0.6 < 0.6	J 9.0 < 0.9
	7-Feb-07	1	NS - frozen	NS - frozen	NS - frozen	NS - frozen	
	26-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	12-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
Dilution factor for DEHP 1.1 Dilution factor for DEHP 1.1	4-Dec-07 4-Dec-07	4 4 duplicate	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 7.7	< 3.0 < 3.0	< 1.1 < 1.1
Dilution factor for DEHP 1.1 Dilution factor for DEHP 1.05		1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.1
Dilution factor for DEHP 1.05	7-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	22-Jul-08	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	29-Oct-08 15-Jan-09	1	< 0.2 NS - frozen	< 0.2 NS - frozen	< 0.2 NS - frozen	< 0.6 NS - frozen	< 0.9 NS - frozen
	8-Apr-09	2	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0
	21-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	< 0.9
	11-Nov-09 15-Feb-10	1	< 0.9 < 0.5	< 0.8	< 0.8 < 0.5	< 0.9 < 1.5	< 0.9 < 1.0
	21-Apr-10	2	< 0.5	< 0.5 < 0.5	< 0.5	< 1.5	< 0.95
	24-Aug-10	3	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95
MW-31s	8-May-08	2	< 500	E 500	2 500	27,000	310
Dilution factor for BTEX 500, DEHP 83.5 Dilution factor for Benzene & Toluene 20, Ethylbenzene and Xylenes 250, DEHP 500	8-May-08 23-Jul-08	3	< 500 < 20	5,500 9,000	< 2,500 < 100	49,000	16,000
Dilution factor for BTEX 50, DEHP 10		4	< 10	7,900	< 100	40,000	760
Dilution factor for Benzene & Toluene 10, Ethylbenzene and Xylenes 100, DEHP 50	14-Jan-09	1	< 0.9	4,400	J 46	25,000	3,100
Dilution factor for BTE 10 and Xylenes 100, DEHP 10 Dilution factor for Benzene & Toluene 5, Ethylbenzene and Xylene 50, DEHP		2	< 9	2,300	< 8	9,600	690
Dilution factor for Benzene & Toluene 5, Ethylbenzene and Xylene 50, DEHP 500	23-Jul-09	3	J 5	4,500	J 10	22,000	23,000

			A	NALYTICAL PARAMETERS	3		
MONITORING WELLS	SAMPLE DATE	QUARTER	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2- Ethylhexylphthalate (DEHP)
		UNITS	ug/l	ug/l	ug/l	ug/l	ug/l
		SOLUBILITY LIMIT	1,700,000	152,000	515,000	175,000	334
		TITATION LIMIT [PQL]	1	2	1	2	3
NEW JERSEY GROUNDWATER			0.2	700	600	1,000	2
		OF NJGWQS AND PQL	1	700	600	1,000	3
Dilution factor for Benzene Ethylbenzene & Toluene 5, Xylene 50, DEHP 10	12-Nov-09	4	< 5	1,300	J 5	7,400	340
Dilution factor for Benzene & Toluene 5, Ethylbenzene & Xylene 50, DEHP 25 Dilution factor for Ethylbenzene & Xylene 250, DEHP 25	16-Feb-10 22-Apr-10	1 2	4.4 7.6	4,000 8,700	11 16	17,000 40.000	1,000 190
Dilution factor for Ethylbenzene & Xylene 100, DEHP 10	25-Aug-10	3	3.6	760	8.4	12,000	440
MW-32s Dilution factor for BTEX 200, DEHP 121000	8-May-08	2	< 200	16,000	< 1,000	75,000	370,000
Dilution factor for Benzene & Toluene 50, Ethylbenzene and Xylenes 250, DEHP 12	23-Jul-08	3	< 50	8,600	< 250	43,000	7,900
BTE 5, Xylenes 10, DEHP 100	30-Oct-08	4	J 1.1	1,200	J 1.7	6,900	4,600
Dilution for BTE 50, Xylene 500, DEHP 500	15-Jan-09	1	< 45	8,900	< 40	40,000	12,000
Dilution for Benzene & Ethylbenzene 20, Toluene & Xylenes 200, DEHP 100	8-Apr-09	2	< 18	8,200	< 16	50,000	8,600
Dilution factor for BTE 50, Xylene & DEHP 200 Dillution factor for BTE 20, Xylene 200 & DEHP 100	23-Jul-09 12-Nov-09	3	< 45 < 18	7,400 3,800	< 40 < 16	43,000 29,000	5,400 2,300
Dilution factor for Benzene & Toluene 5, Ethylbenzene & Xylene 50, DEHP 1000	16-Feb-10	1	7.7	7,400	10	36,000	130,000
Dilution factor for Ethylbenzene and Xylenes 100, DEHP 40	22-Apr-10	2	6.7	6,200	14	31,000	2,800
Dilution factor for Ethylbenzene and Xylenes 100, DEHP 100	25-Aug-10	3	6.9	4,500	4.5	20,000	6,100
MW-33s							
Dilution factor for DEHP 1.25	8-May-08	2	4	6.6	< 5.0	27	16
	23-Jul-08	3	1.8	< 1.0	< 5.0	3.3	21
Dilution factor for DEHP 50	30-Oct-08	4	J 0.4	J 0.6	J 0.3	< 3.0	5,500
Dilution factor for DEHP 200 Dilution factor for DEHP 50	15-Jan-09 9-Apr-09	1 2	< 0.9 < 0.9	< 0.8 < 0.8	< 0.8 < 0.8	< 0.9 < 0.9	3,400 1,100
Dilution factor for DEHP 500	23-Jul-09	3	< 0.9	< 0.8	< 0.8	J 2.0	81,000
Dilution factor for DEHP 20	12-Nov-09	4	< 0.9	< 0.8	< 0.8	J 2.0	790
Dilution factor for DEHP 250 Dilution factor for DEHP 20	16-Feb-10 22-Apr-10	1 2	< 0.5 < 0.5	0.5 1.5	< 0.5 < 0.5	5.1 10	21,000 910
Dilution factor for DEHP 10		3	< 0.5	< 0.5	< 0.5	5.9	560
MW-34s	0.14		1.0			1000	0.0
Dilution factor for Ethylbenzene and Total Xylenes 5, DEHP 1.33 Dilution factor for BTEX 20	6-May-08 23-Jul-08	2	1.3 < 20	230 470	< 5.0 < 100.0	1,200 2,300	3.0 1.6
	30-Oct-08	4	< 0.2	2	< 0.2	180	7
Dilution factor for BTE 10, Xylene 100	15-Jan-09	1	< 9	2,700	J 16.0	13,000	7
Dilution for Benzene & Toluene 10, Ethylbenzene & Xylenes 100, DEHP 100 Dilution for Benzene & Toluene 2, Ethylbenzene & Xylenes 20	8-Apr-09 23-Jul-09	2	< 9 < 2	3,600 1,300	J 18.0 J 5.0	18,000 6,700	J 5
Ethylbenzene & Xylenes 20 Ethylbenzene & Xylenes 10	12-Nov-09	4	< 0.9	440	< 0.8	1,000	J 4
Dilution facor for Ethylbenzene and Xylene is 20	16-Feb-10	1	1.5	680	2.2	2,300	13
Dilution factor for Ethylbenzene and Xylene is 100	22-Apr-10	2	5.6 4.7	3,400 240	44 13	14,000 1,200	8.1
Dilution factor for Ethylbenzene and Xylene is 100	25-Aug-10	3	4.7	240	13	1,200	22
MW-35s							
Dilution factor for Ethylbenzene and Total Xylenes 500, DEHP 57 Dilution factor for Benzene & Toluene 10, Ethylbenzene and Xylenes 250,	6-May-08	2	1.3	230	< 5.0	1,200	490
DEHP 20 Dilution factor for Xylenes 100, Benzene 20, Toluene 20, Ethlbenzene 100,		3	16	12,000	260.0	67,000	530
DEHP 10 Dilution factor for Benzene and Toluene 20, Ethylbenzene, Xylene and DEHP	30-Oct-08	4	J 9.6	8,800	34.0	57,000	460
200 Dilution factor for Benzene and Toluene 20, Ethylbenzene& Xylene 200, DEHP 50	15-Jan-09 8-Apr-09	1 2	< 18 < 18	12,000 13,000	J 36.0 J 40.0	88,000 100,000	3,500 1,800
Dilution factor for Benzene & Toluene 20, Ethylbenzene and Xylene 200, DEHP 500	23-Jul-09	3	< 18	14,000	J 36.0	92,000	20,000
Dilution factor for Benzene Ethylbenzene & Toluene 50, Xylene and DEHP 500		4	< 45	8,900	< 40.0	69,000	3,000
Dilution factor for Benzene & Toluene 20, Ethylbenzene & Xylene 1000 and DEHP 25		1	< 10	9,800	30.0	59,000	660
Dilution factor for Ethylbenzene & Xylene 200, and DEHP 25	22-Apr-10	2	13	14,000	35	79,000	540
Dilution factor for Ethylbenzene & Xylene 1000, and DEHP 5	25-Aug-10	3	8.7	10,000	24	61,000	280
Atmospheric Blank	13-Jan-05	1	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
•	8-Apr-05	2	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	26-Jul-05	3	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	27-Oct-05 28-Feb-06	<u>4</u> 1	< 0.2 < 0.2	< 0.2 < 0.2	< 0.2 < 0.2	< 0.6 < 0.6	< 1.0 < 1.0
	20-Jun-06	2	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	12-Sep-06	3	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	7-Nov-06 8-Feb-07	<u>4</u> 1	< 0.2 < 1.0	< 0.2 < 1.0	< 0.2 J 1.9	< 0.6 < 3.0	< 1.0 < 1.0
	27-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	11-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	5-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
ATM-01 ATM-01. Dilution factor for DEHP 1.08	20-Feb-08 6-May-08	1 2	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	< 1.0 < 1.1
AT WHO I, DITUTION TECTOR DEHP 1.08	22-Jul-08	3	< 1.0	< 1.0	< 5.0 < 5.0	< 3.0	< 1.1
	ZZ-Jul-00						
	28-Oct-08	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0

				NALYTICAL PARAMETERS	,		
MONITORING WELLS	SAMPLE DATE	QUARTER	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2- Ethylhexylphthalat (DEHP)
		UNITS	ug/l	ug/l	ug/l	ug/l	ug/l
		SOLUBILITY LIMIT	1,700,000	152,000	515,000	175,000	334
	PRACTICAL QUAN	ITITATION LIMIT [PQL]	1	2	1	2	3
NEW JERSEY GROUNDWATER	QUALITY STANDARDS	(NJGWQS) CLASS IIA	0.2	700	600	1,000	2
	HIGHER	OF NJGWQS AND PQL	1	700	600	1,000	3
	8-Apr-09	2	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0
	22-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	< 0.9
	11-Nov-09	4	< 0.9	< 0.8	< 0.8	< 0.9	< 0.9
	15-Feb-10 20-Apr-10	1 2	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.5 < 1.5	< 0.95 < 1.0
	24-Aug-10	3	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95
	217.tag 10	Ŭ	1 0.0	1 0.0	1 0.0	1 110	1 0.00
Rinsate Blank							
	14-Jan-05	1	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	9-Apr-05	2	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	27-Jul-05 27-Oct-05	3 4	< 0.2 < 0.2	< 0.2 < 0.2	< 0.2 < 0.2	< 0.6 < 0.6	< 1.0 < 1.0
	28-Feb-06	1	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	21-Jun-06	2	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	22-Jun-06	2	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	13-Sep-06	3	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	14-Sep-06	3	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	9-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	9-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
	8-Feb-07 8-Feb-07	1 1	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	< 1.0 < 1.0
	27-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	27-Jun-07	2	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	10-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	12-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
	12-Sep-07	3	< 1.0	< 1.0	< 5.0	< 3.0	1.1
	6-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	2.7
	6-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
RB-02	20-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
RB-03	20-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
RB-02	5-May-08 23-Jul-08	3	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	< 1.0 < 1.0
RB-02 RB-03	23-Jul-08	3	< 1.0	< 1.0	< 5.0	< 3.0	< 1.0
RB-02	30-Oct-08	4	< 0.2	< 0.2	< 0.2	< 0.6	< 0.9
RB-03	30-Oct-08	4	< 0.2	< 0.2	< 0.2	< 0.6	< 1.0
RB-01	15-Jan-09	1	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0
RB-02	15-Jan-09	1	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0
RB-01	9-Apr-09	2	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0
RB-02	9-Apr-09	2	< 0.9	< 0.8	< 0.8	< 0.9	< 1.0
RB-01	23-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	< 0.9
RB-02	23-Jul-09	3 4	< 0.9	< 0.8	< 0.8	< 0.9	J 2.0
RB-02	12-Nov-09 16-Feb-10	1	< 0.9 < 0.5	< 0.8 < 0.5	< 0.8 < 0.5	< 0.9 < 1.5	< 1.0 < 1.0
RB-02 RB-02	21-Apr-10	2	< 0.5	< 0.5	< 0.5	< 1.5	< 1.0
RB-02	25-Aug-10	3	< 0.5	< 0.5	< 0.5	< 1.5	< 0.95
Trip Blank							
	13-Jan-05	1	< 0.2	< 0.2	< 0.2	< 0.6	NA
	9-Apr-05	2	< 0.2	< 0.2	< 0.2	< 0.6	NA
	27-Jul-05	3 4	< 0.2	< 0.2	< 0.2 < 0.2	< 0.6 < 0.6	NA NA
	27-Oct-05 28-Feb-06	1	< 0.2 < 0.2	< 0.2 < 0.2	< 0.2	< 0.6	NA NA
	20-Jun-06	2	< 0.2	< 0.2	< 0.2	< 0.6	NA NA
	12-Sep-06	3	< 0.2	J 0.2	< 0.2	< 0.6	NA NA
	13-Sep-06	3	< 0.2	< 0.2	< 0.2	< 0.6	NA
	6-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	NA
	7-Nov-06	4	< 0.2	< 0.2	< 0.2	< 0.6	NA
	7-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	NA
	8-Feb-07	1	< 1.0	< 1.0	< 5.0	< 3.0	NA NA
	27-Jun-07 26-Jun-07	2 2	< 1.0 < 1.0	< 1.0 < 1.0	< 5.0 < 5.0	< 3.0 < 3.0	NA NA
	4-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	NA NA
	5-Dec-07	4	< 1.0	< 1.0	< 5.0	< 3.0	NA NA
	18-Feb-08	1	< 1.0	< 1.0	< 5.0	< 3.0	NA NA
	5-May-08	2	< 1.0	< 1.0	< 5.0	< 3.0	NA
				< 1.0	< 5.0	< 3.0	NA
	22-Jul-08	3	< 1.0	₹ 1.0			14/3
	23-Jul-08	3	< 1.0	< 1.0	< 5.0	< 3.0	NA
	23-Jul-08 29-Oct-08	3 4	< 1.0 < 0.2	< 1.0 < 0.2	< 5.0 < 0.2	< 3.0 < 0.6	NA NA
	23-Jul-08 29-Oct-08 29-Oct-08	3 4 4	< 1.0 < 0.2 < 0.2	< 1.0 < 0.2 < 0.2	< 5.0 < 0.2 < 0.2	< 3.0 < 0.6 < 0.6	NA NA NA
	23-Jul-08 29-Oct-08	3 4	< 1.0 < 0.2	< 1.0 < 0.2	< 5.0 < 0.2	< 3.0 < 0.6	NA NA

DAYCO CORPORATION/L.E. CARPENTER SUPERFUND SITE

Borough of Wharton, Morris County, New Jersey Groundwater Monitoring Data

			AA A	IALYTICAL PARAMETER	s		
MONITORING WELLS	SAMPLE DATE	QUARTER	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2- Ethylhexylphthalate (DEHP)
		UNITS	ug/l	ug/l	ug/l	ug/l	ug/l
		SOLUBILITY LIMIT	1,700,000	152,000	515,000	175,000	334
	PRACTICAL QUAN	NTITATION LIMIT [PQL]	1	2	1	2	3
NEW JERSEY GROUNDWATER	QUALITY STANDARDS	(NJGWQS) CLASS IIA	0.2	700	600	1,000	2
	HIGHER	OF NJGWQS AND PQL	1	700	600	1,000	3
	7-Apr-09	2	< 0.9	< 0.8	< 0.8	< 0.9	NA
	21-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	NA
	23-Jul-09	3	< 0.9	< 0.8	< 0.8	< 0.9	NA
	8-Nov-09	4	< 0.9	< 0.8	< 0.8	< 0.9	NA
	10-Nov-09	4	< 0.9	< 0.8	< 0.8	< 0.9	NA
	11-Feb-10	1	< 0.5	< 0.5	< 0.5	< 1.5	NA
	11-Feb-10	1	< 0.5	< 0.5	< 0.5	< 1.5	NA
	14-Apr-10	2	< 0.5	< 0.5	< 0.5	< 1.5	NA
	21-Apr-10	2	< 0.5	< 0.5	< 0.5	< 1.5	NA

LEGEND

ug/L = micrograms per liter

NJGWQS = New Jersey Groundwater Quality Standards

ROD: Record of Decision

NA = Not Applicable

NS = Not Sampled ND: No Detection

duplicate = Duplicate sample Concentration exceeds NJGWQS

and less than the Limit of Quantitation (LOQ)

B: Analyte also detected in blank J: Estimated value. Value is greater than or equal to the Method Detection Limit (MDL)

NOTES

1.2

- (1) Low flow sampling initiated 1st quarter 2002
- (2) GEI series wells are piezometers installed by Weston
- (3) GEI series wells, MW-19-3, and MW-19-4 are not sampled under revised groundwater monitoring program effective 1Q05.
- (4) Recovery of initial DEHP analysis was above QC limits in the LCS. Sample was re-extracted and DEHP was again above the QC limits in the LCS/LCSD.
- However, DEHP was not detected in the re-analysis of the sample. The data reported here is from the re-analysis of the sample. (5) Recovery of initial DEHP analysis was above QC limits in the LCS. Sample was re-extracted and DEHP was again above the QC limits in the LCS/LCSD.
- Comparable data was observed beween the two extractions. The data reported here is from the initial extraction of the sample.

 [6] NJGWQS for toluene lowered August 2007

Dayco Corporation/L.E. Carpenter Superfund Site Borough of Wharton, Morris County, New Jersey Quarterly Groundwater Monitoring - MNA Analytical Data

Well ID	Sampling Event	Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate ⁽¹⁾	Methane	Dissolved Lead
	UNITS	cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NEW JERSEY GROUNDWATER QUALITY CLASS IIA	STANDARDS	NCS	NCS	500	NCS	NCS	NCS	250	NCS	.005(2)
MW-19-12 ⁽³⁾	2Q06	4,000	11.2 J	548	0.048 J	ND	ND	15.1	4.8 J	ND
Dilution factor for Methane 5	3Q06	170	6.4 J	822	0.36	ND	ND	22.9	170	ND
	4Q06	2	4.4 J	716	0.22	ND	ND	21.3	130	ND
	4Q06D 1Q07	<u>2</u> 4	ND 5.5	718 400	0.17 0.56	ND 0.12	ND ND	21.8 20	130 ND	ND ND
	2Q07	55	ND	240	0.93	ND	ND	13	ND	ND
	2Q07D	8	ND	270	0.93	ND	ND	13	ND	ND
	3Q07	73	ND	290	0.89	ND	ND	13	ND	ND
	4Q07	FS	3	260	0.9	ND	ND	11	ND	ND
	1Q08 2Q08	9 ND	ND 1.1	160 220	0.84	ND ND	ND ND	5.7 10	ND ND	ND ND
	3Q08	2	1.7	220	0.72	ND	ND ND	8.1	ND	ND
	4Q08	7	ND	269	0.79	ND	ND	16.6	ND	ND
	1Q09	4	ND	170	1.1	ND	ND	18.3	ND	ND
	2Q09	320	5.2 J	334	0.94	ND	ND	18.5	ND	ND
	3Q09	18 ND	ND	261	0.9	6.2	ND	13.3	ND	ND
	4Q09	ND	ND	263	0.81	ND	ND	15.3	ND	ND
MW-8										
Dilution factor for Methane 10	3Q08	ND	66	300	ND	0.68	0.4	ND	3,000	ND
Dilution factor for Methane 20	4Q08	5,200	33.6	94.5	ND	0.35 J	ND	1.9 J	1,800	ND
Dilution factor for Methane 10	1Q09	51	56.8	270	ND	0.64	0.16	ND	2,600	ND
Dilution factor for Methane 50	2Q09 3Q09	450 75	28 40	174 407	ND ND	ND ND	ND 0.13	ND 2.5 J	6,100 2,400	ND ND
Dilution factor for Methane 20	4Q09	84	42.5	191	ND ND	0.53 J	ND	ND	5,600	ND
	1Q10									
Dilution factor for Nitrate, and Ammonia 5,TDS & TSS 2 Dilution factor for Nitrate and Methane 5, TDS 20	2Q10	46 240	62 36	280 ND	0.35 ND	0.44 0.24	0.24 0.24	ND ND	1,500 140	ND ND
Dilution factor for Nitrate 5, Methane 100	3Q10	100	70	490	ND	0.61	0.29	7.7	4,900	ND
·									.,	
MW-25R	2Q06	1,100	18.8	340	ND	0.24 J	ND	2.9 J	140	ND
	3Q06	>5700	279	329	ND	0.24 J	0.14	3.3 J	30	ND
	4Q06 1Q07	1,000 240	16.8 49	331 300	ND ND	ND 0.12	ND ND	6.2 ND	25 29	ND ND
	2Q07	>5700	100	340	ND ND	0.12	ND ND	5.9	33	ND
	2Q07D	>5700	100	350	ND	0.11	ND	6.4	32	ND
	3Q07	>5700	10	260	ND	ND	ND	14	ND	ND
	4Q07	FS	490	380	ND	0.41	0.43	10	ND	ND
	1Q08 2Q08	>5700 >5700	140 200	360 330	ND ND	0.13 0.15	0.17 0.23	5.4 ND	55 130	ND ND
	3Q08	>5700 ND	68	380	ND ND	0.15	ND	ND ND	12	ND
	4Q08	>5700	ND	243	ND	ND	ND	16	3.5 J	ND
	1Q09	1,500	36.8	344	ND	ND	ND	36.5	57	ND
	2Q09	>5700	98.8	362	ND	ND	ND	9.4	7.6 J	ND
	3Q09	2,100	32.4	412	ND	ND	ND	8.5	100	ND
Dilution factor for Nitrate 5, TDS 2	4Q09 1Q10	1,600 580	160 95	198 430	ND 0.35	0.42 J 0.18	ND 0.14	12 6.9	30 41	ND ND
Dilution factor for Nitrate 5, TDS 20, TSS 4	2Q10	1,700	160	ND	ND	0.068	0.20	1.4	36	ND
Dilution factor for Nitrate 5	3Q10	3,800	65	650	ND	0.11	ND	30	1.5	ND
MW-27s	2Q06	NR 5700	5180	630	ND	0.26 J	4.8	43.3	20	ND
	3Q06 4Q06	>5700 >5700	3850 166	798 753	ND 0.16	ND ND	1.4 0.82	108 116	3.7 J 2.3 J	ND ND
	1Q07	>5700	580	650	ND	ND	0.19	91	ND	ND
	2Q07	>5700	48	640	ND	ND	3.5	97	ND	ND
	3Q07	270	150	630	ND	ND	0.12	84	ND	ND
	4Q07	FS	260	620	0.16	0.45	ND	87	22	ND
ļ	1Q08	>5700	850	530	0.65	ND	0.74	78 67	ND	ND
Dilution factor for Phosphorus 5	2Q08 3Q08	>5700 560	770 1,400	490 620	0.19 ND	ND 0.14	0.91 17	67 61	ND 11	ND ND
Shallott factor for Phospholas 5	4Q08	390	66.4	571	0.2	ND	.085 J	68.8	ND	ND
	1Q09	190	1,200	517	0.55	ND	0.27	62.5	ND	0.0283
	2Q09	81	253	454	0.96	ND	ND	52.6	ND	ND
	3Q09	8	684	482	0.38	ND	ND	43.9	ND	ND
Dilution featur for Allinois	4Q09 1Q10	23 18	300 64	721 600	0.5 1.3	ND 0.1	ND 0.089	47.9 54	ND ND	ND ND
Dilution factor for Nitrate 5 Dilution factor for Nitrate 5, TDS 20	2Q10	30	32	400	1.3	ND	0.089 ND	49	ND ND	ND ND

Dayco Corporation/L.E. Carpenter Superfund Site Borough of Wharton, Morris County, New Jersey Quarterly Groundwater Monitoring - MNA Analytical Data

Well ID	Sampling Event	Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate ⁽¹⁾	Methane	Dissolved Lead
	UNITS	cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NEW JERSEY GROUNDWATER QUALITY CLASS IIA	STANDARDS	NCS	NCS	500	NCS	NCS	NCS	250	NCS	.005 ⁽²⁾
MW-28s	2Q06	6	35.2	350	ND	0.35 J	0.25	2.6 J	3,100	ND
Dilution factor for Methane 200	3Q06	1,300	22	460	ND	0.26 J	0.37	ND 4.7.1	3,200	ND
Dilution factor for Methane 200 Dilution factor for Methane 100	3Q06D 4Q06	1,500 1	22 25	468 347	ND ND	ND ND	0.37 0.43	1.7J 2.0 J	3,100 4,400	ND ND
Dilution factor for Methane 100	1Q07	460	180	350	ND ND	ND ND	0.43	ND	170	ND
	1Q07D	230	93	360	ND	ND	0.43	ND	810	0.0051
Dilution factor for Methane 10	2Q07	78	49	400	ND	0.14	0.34	ND	1,600	ND
Dilution factor for Methane 4	3Q07	ND	50	350	ND	ND	0.34	ND	1,100	ND
Dillution for Methane is 40	4Q07	320	42	330	ND	0.19	0.38	ND	1,900	ND
	1Q08	80	31	250	ND	0.14	0.36	ND	570	ND
Dilution for Methane is 10	2Q08	11	44	360	ND	0.19	ND	ND	1,400	ND
Dilution factor for Methane 4	3Q08	ND	52	340	ND	0.17	0.4	ND	11	0.0056
Dilution factor for Methane 20	4Q08	82	23.6	321	ND	ND	0.31	2.3 J	1,800	ND
Dilution factor for Methane 200	1Q09	9	38.4	356	ND	0.27 J	0.32	ND 5.0	5,000	ND
Dilution factor for Methane 5 Dilution factor for Methane 50	2Q09 3Q09	530 2	6.0 J 28.8	327 679	ND ND	ND 0.36 J	0.24 0.26	5.8 ND	1,000	ND ND
Dilution factor for Methane 50 Dilution factor for Methane 2	3Q09 4Q09	54	17.2	408	ND ND	0.36 J ND	0.26	4.2 J	5,200 460	ND ND
Dilution factor for Nitrate 5, TDS & TSS 2, Methane 50	1Q10	240	24.0	330	0.34	0.22	0.4	ND	2,100	ND
Dilution factor for Nitrate 5, TDS 2, Methane 50	1Q10D	210	ND 10	330	ND	0.21	0.4	ND	2,100	ND
Dilution for Methane 100, TSS & TDS 2, Nitrate 5	2Q10	71	18	240	ND	0.10	0.40	1.1	1,600	ND
Dilution for Methane 50, Nitrate 5	3Q10	42	21	510	ND	0.20	0.35	5.2	900	ND
Dilution for Methane 50, Nitrate 5	3Q10D	44	19	440	ND	0.19	0.37	5.4	910	ND
MW-28i										
Dilution factor for Methane 10	2Q06	290	28	367	0.047 J	ND	0.22	2.2 J	1,900	ND
Dilution factor for Methane 100	3Q06	>5,700	42.8	338	ND	ND	0.19	3.5 J	1,500	ND
Dilution factor for Methane 100	4Q06	440	15.6	335	ND	ND	0.22	3.0 J	1,500	ND
	1Q07	110	34	380	0.1	0.2	0.35	ND	410	ND
Dilution factor for Methane 4	2Q07	24	23	330	ND	0.27	0.29	ND	710	ND
	3Q07	37	37	300	ND	0.28	0.27	ND	560	ND
	4Q07	160	34	360	ND	0.47	0.64	5.1	370	ND
	1Q08	ND 17	25	290	ND	0.37	0.29	ND	170	ND
Dilution factor for Methane 10	2Q08	17	38	560	ND ND	0.31	0.23	ND	870	ND ND
Dilution factor for Methane 5	3Q08 4Q08	51 24	29 20.8	310 360	ND ND	0.25 0.54 J	280 0.23	ND 6.7	410 500	ND ND
Dilution factor for Methane 10	1Q09	3	31.6	399	ND ND	.42 J	0.27	ND	1,800	ND
Dilution factor for Methane 10	1Q09D	4	35.2	415	ND	0.54 J	0.26	ND	1,700	ND
	2Q09	89	13.6	351	ND	ND	0.22	7.7	110	ND
Dilution factor for Methane 10	3Q09	ND	20	542	ND	1.1	0.21	2.6 J	2,100	ND
	4Q09	4	18	445	ND	0.38 J	0.11	7.8	190	ND
	4Q09D	4	19.6	417	ND	0.47 J	0.13	7.8	180	ND
Dilution factor for Nitrate 5, TDS & TSS 2, Methane 50	1Q10	10	40	470	ND	0.49	0.34	0.96	1,400	ND
Dilution for Methane 100, TSS & TDS 2, Nitrate 5	2Q10	8	16	260	ND	0.21	0.32	2.1	800	ND
Dilution for Methane 100, TSS & TDS 2, Nitrate 5	3Q10	5.5	23	420	ND	0.33	0.29	8.5	210	ND
		-								
MW-29s	2Q06	250	58.8	504	ND	11.9	0.45	4.0 J	1,200	ND
Dilution factor for Methane 250	3Q06	>5700	54	546	ND	9.9	0.32	1.9 J	5,000	ND
Dilution factor for Methane 100	4Q06	190	35.6	509	ND 0.14	8.3	0.29	3.9 J	5,200	ND 0.0004
Dilution factor for Methane 4	1Q07 2Q07	30 150	41 56	510 490	0.14 ND	7.5 8.3	0.34 0.29	ND ND	450 1,000	0.0084 ND
Dilution factor for Methane 4 Dilution factor for Methane 10	3Q07	1,900	56 54	520	ND ND	8.3	0.29	ND ND	2,500	ND ND
Dillution for Methane 10		FS	66	500	ND ND	9.3	0.44	ND	3,100	0.014
Dillution for Lead 5		93	60	510	ND	7.5	0.34	ND	2,000	ND
Dillution for Lead 5		120	38	510	ND	7.6	0.35	ND	1,800	ND
Dilution for Methane 10		65	40	490	ND	8.2	0.3	ND	2,100	ND
Dilution factor for Methane 4	3Q08	130	20	460	ND	7.7	0.41	ND	1,700	ND
Dilution factor for Methane 50	4Q08	52	37.2	455	ND	7.2	0.35	ND	4,400	ND
Dilution factor for Methane 50	4Q08D	56	41.6	462	ND	7.2	0.34	ND	4,600	ND
Dilution factor for Methane 200	1Q09	1,600	58.8	425	ND	7.2	0.32	3.0 J	6,100	ND
Dilution factor for Methane 50	2Q09	200	58	464	ND	5.8	0.28	7.3	4,000	ND
Dillution factor for Methane 100	3Q09	21	47.2	542	ND	7.5	0.31	3.3 J	4,800	ND
Dillution factor for Methane 20 Dilution for Methane 50, TSS & TDS 2, Nitrate and	4Q09	3	39	436	ND	8.9	0.25	ND	5,800	ND
Ammonia 5	1Q10	110	62	440	0.36	6.4	0.38	2.1	2,800	ND
Dillution factor for Methane 100, TDS 20, TSS 4, Nitrate 5	2Q10	110	46	440	ND	4.2	0.39	1.5	6,200	ND
Dillution for Methane 100, Ammonia & Nitrate 5	3Q10	15	45	510	ND	8.9	0.37	7.0	1,800	ND

Dayco Corporation/L.E. Carpenter Superfund Site Borough of Wharton, Morris County, New Jersey Quarterly Groundwater Monitoring - MNA Analytical Data

Well ID	Sampling Event	Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate ⁽¹⁾	Methane	Dissolved Lead
	UNITS	cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NEW JERSEY GROUNDWATER QUALITY CLASS IIA	STANDARDS	NCS	NCS	500	NCS	NCS	NCS	250	NCS	.005 ⁽²⁾
MW 00-	0000	0.000	75.0	0.40	ND	0.00	0.47	5.0	0.000	ND
MW-30s Dilution factor for Methane 200	2Q06 3Q06	2,200 >5700	75.6 132	348 457	ND ND	0.86 0.89	0.17 0.32	5.2 ND	3,800 2,500	ND ND
Dilution factor for Methane 100	4Q06	>5700	147	448	ND ND	1.1	0.32	5.5	6,500	ND ND
Dilution factor for Methane 10	2Q07	>5700	650	350	ND	0.94	1.6	ND	1,800	ND
Dilution factor for Methane 4	3Q07	>5700	220	440	ND	1	0.34	ND	1,700	ND
Dilution factor for Methane 4	3Q07D	>5700	180	400	ND	1.1	0.33	ND	1,500	ND
Dilution factor for Methane 10	4Q07	>5700	120	520	ND	1.3	0.22	ND	1,900	ND
Dilution factor for Methane 4	1Q08	1,100	2,300	410	ND	0.97	1.2	ND	1,300	ND
Dilution factor for Methane 10	2Q08	>5700	36	320	ND	0.93	0.26	ND	1,700	ND
Dilution factor for Methane 4	3Q08	ND 2.222	36	390	ND ND	2.60	0.29	ND	1,800	ND
Dilution factor for Methane 50	4Q08	2,300	18 NC frames	401	ND NC frames	1.30	0.19	ND NC frames	4,100	ND NC frames
Dilution factor for Methane 20	1Q09 2Q09	NS-frozen 210	40	NS-frozen 464	NS-frozen ND	NS-frozen 1.3	NS-frozen 0.14	NS-frozen 2.0 J	NS-frozen 3,700	NS-frozen ND
Dilution factor for Methane 50	3Q09	720	38.8	464	ND	1.6	0.14	ND	4,200	ND ND
Dilution factor for Methane 20	4Q09	720	33.2	457	ND	1.3	ND	ND	4,400	ND ND
	1Q10	NS-frozen		NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
Dilution for Methane 200, TSS & TDS 2, Nitrate 5	2Q10D	2,700	50	470	ND	0.93	0.26	ND	3,300	ND ND
Dilution for Methane 100, TSS & TDS 2, Nitrate 5	2Q10	12,000	48	440	ND	0.91	0.26	ND	3,200	ND
Dilution for Methane 100, Nitrate 5	3Q10	3,600	46	480	ND	1.0	0.32	4.9	1,600	ND
MW-30i	2Q06	>5700	18.8	369	ND	1.8	0.15	8.2	1,100	ND
Dilution factor for Methane 100	3Q06	290	41.6	414	ND	0.83	0.23	3.2 J	1,200	ND
Dilution factor for Methane 50	4Q06	40	17.2	456	ND	0.89	0.24	11.1	930	ND
Dilution factor for Methane 50	4Q06D	43	41.2	478	ND	ND	0.23	11.1	930	ND
Dilution factor for Methane 4	2Q07	36	34	300	ND	0.8	0.31	ND	680	ND
	3Q07	ND	41	430	ND	1	0.33	ND	97	ND
	4Q07	470	69	530	ND	1.1	0.45	ND	ND	ND
	1Q08	2	33	410	ND	1.2	0.34	ND	370	ND
	2Q08	23	27	540	ND ND	1	ND 0.00	ND	510	ND
Ditution to star to Mathews 4	2Q08D	16 ND	26 31	300 390	ND ND	1	0.29	ND ND	560	ND ND
Dilution factor for Methane 4 Dilution factor for Methane 5	3Q08 4Q08	ND 6	21.6	411	ND ND	1.3 1.4	0.38 0.27	4.4 J	790 400	ND ND
Bildion factor for Welfalle 3	1Q09	NS-frozen	NS-frozen		NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q09	670	36.8	474	ND	1.3	0.19	5.9	270	ND
Dillution factor for Methane 2, Ammonia Nitrogen 2	3Q09	5	28.0	431	ND	1.3	0.26	4.3 J	660	ND
Dillution factor for Methane 2	3Q09D	6	24.8	444	ND	0.72	0.25	4.2 J	730	ND
	4Q09	13	24.0	448	ND	ND	0.14	6.1	170	ND
	1Q10	NS-frozen		NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
Dilution for Methane 100, TSS & TDS 2, Nitrate 5	2Q10	130	42	460	ND	0.86	0.38	ND	2,100	ND
Dilution for Methane 50, Nitrate 5	3Q10	50	31	440	ND	1.1	0.39	5.6	640	ND
MW-30d	2Q06	2,800	11.6	248	ND	0.30 J	ND	9.7	45	ND
	3Q06	>5700	6.4 J	288	0.043 J	ND	ND	10.6	5	ND
	4Q06	47	5.6 J	375	ND	ND	ND	12.5	22	ND
	2Q07	130	13	240	ND	0.11	ND	10	77	ND
	3Q07	78	9	260	ND	0.16	ND	11	ND	ND
	4Q07	FS	20	300	ND	0.24	0.11	11	ND	ND
	4Q07D	FS	20	270	ND	0.19	0.28	11	ND	ND
	1Q08	790	8	300	ND	0.12	ND ND	9.4	47	ND ND
	2Q08	420 ND	12	370	ND ND	0.27	ND 0.13	5.3	140	ND ND
	3Q08 4Q08	ND 40	9.2 9.2 J	280 309	ND ND	0.31 0.27 J	0.13 ND	9.2 12.7	16 ND	ND ND
	1Q09	NS-frozen		NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q09	75	9.2 J	324	0.046 J	ND ND	ND ND	14.3	5 J	ND
	3Q09	9	6.4 J	321	ND	ND	ND	14.8	60	ND
	4Q09	7	5.2 J	331	0.1	ND	ND	15	ND	ND
Dilution factor for Nitrate 5, Methane 4	1Q10	38	11	350	ND	0.12	0.05	10	90	ND
Dilution factor for Methane 2, Nitrate 5, TDS 10	2Q10	33	6.0	110	ND	0.079	0.051	8.7	71	ND
Dilution factor for Nitrate 5	3Q10	8,300	15.0	300	ND	0.071	0.13	12	ND	ND
MW-31s										
Dilution factor for Ammonia and Methane 10	2Q08	>5700	460	810	0.12	22	0.68	44	3,000	ND
Dilution factor for Ammonia and Methane 10	3Q08	ND	320	1900	ND	22	0.08	72	2,100	ND ND
Dilution factor for Sulfate 10 and Methane 50	4Q08	> 5700	11.5 J	502	ND ND	10.8	0.14	84.2	2,800	ND ND
Dilution factor for Methane 100	1Q09	620	35.2	629	ND	22.6	0.40	47.9	11,000	ND ND
Dilution factor for Sulfate and Methane 20	2Q09	> 5700	ND	556	0.056 J	6.4	ND	136	2,400	ND
Dillution factor for Methane 50	3Q09	6,800	36.80	576	ND	19.8	0.12	35.9	12,000	ND

TABLE 3 Dayco Corporation/L.E. Carpenter Superfund Site Borough of Wharton Morris County New Jersey

Borough of Wharton, Morris County, New Jersey Quarterly Groundwater Monitoring - MNA Analytical Data

Well ID	Sampling Event	Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate ⁽¹⁾	Methane	Dissolved Lead
Woll 15	UNITS	cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NEW JERSEY GROUNDWATER QUALITY CLASS IIA	STANDARDS	NCS	NCS	500	NCS	NCS	NCS	250	NCS	.005(2)
Dillution factor for Sulfate 20, and Methane 20	4Q09	100,000	7.6 J	619	ND	9.1	ND	187.0	3,200	ND
Dilution factor for Nitrate 5, Ammonia 10, TSS 2,		*							,	ND
Methane 500 Dilution for Methane 500, Ammonia 10, TDS 5, Nitrate	1Q10	230	54.00	600	ND	16.0	0.30	56.0	15,000	
5 Dilution for Methane 250, Ammonia 10, Nitrate 5	2Q10	210,000	5.0 11.0	630 920	ND ND	12.0 15.0	0.26 0.25	36 41	13,000	ND ND
Dilution for Methane 250, Ammonia 10, Nitrate 5	3Q10	>30,000	11.0	920	ND	15.0	0.25	41	3,900	IND
MW-32s										
Dilution factor for Methane 10	2Q08	>5700	NS	3400	ND	2	14	8.6	4,800	ND
Dilution factor for Methane 10	3Q08 4Q08	410 > 5700	NS 50	650 818	ND ND	1.6 1.6	2.6 0.11	NS 200	2,900	ND ND
Dilution factor for Sulfate 20 and Methane 100 Dilution factor for Methane 200	1Q09	430	385	637	ND	0.69	ND	8.9	5,400 9,500	ND ND
Dilution factor for Sulfate 20 and Methane 100	2Q09	240	35.2	612	0.16	1.8	ND	122	6,900	ND
Dillution factor for Ammonia Nitrogen 3 and Methane 50	3Q09	290	113	620	ND	ND	ND	2.8 J	12,000	ND
Dillution factor for Methane 50	4Q09	5,200	208	691	ND	1.2	ND	47.9	7,300	ND
Dilution factor for Nitrate 5, TDS 2, Methane 400	1Q10	4,600	15	540	ND	0.53	0.13	4.7	13,000	ND
Dilution for Methane 200, TSS 2, TDS 20, Nitrate 5	2Q10	370	52	520	ND	0.085	0.14	11	11,000	ND
Dilution for Methane 200, Nitrate 5	3Q10	11,000	400	850	ND	0.40	0.17	12	5,100	ND
MW-33s										
Dilution factor for Methane 10	2Q08	>5700	220	310	ND	5	0.17	8	2,800	0.011
Dilution factor for Methane 10	3Q08	ND	250	380	ND	7	ND	10	2,000	ND
Dilution factor for Methane 100	4Q08	> 5700	51	358	ND	7.4	0.13	8.6	4,800	ND
Dilution factor for Methane 200 Dilution factor for Methane 50	1Q09 2Q09	160 2,800	122 74	395 410	ND ND	ND 6.7	ND 0.31	68.1 4.8 J	9,600 8,400	ND ND
		,							,	
Dilution factor for Ammonia Nitrogen 2 and Methane 25 Dilution factor for Methane 20	3Q09 4Q09	1,200 670	181 85	610 518	ND ND	5.8 5.8	0.42 ND	12.9 7.2	5,100 3,200	ND ND
Dilution factor for TDS 2, Nitrate, & Ammonia 5,									,	
Methane 200 Dilution for Methane 200, TSS 2, TDS 20, Nitrate 5	1Q10 2Q10	6,700 6,000	ND 74	420 460	ND ND	7.2 4.0	0.06 0.098	6.2 9.3	6,900	ND ND
Dilution for Methane 200, 155 2, 105 20, Nitrate 5 Dilution for Methane 200, Nitrate 5	3Q10	66,000	22	650	ND ND	4.0	0.098	18	6,100 540	ND ND
	54.5	00,000			.,,,		000		0.10	.,,,
MW-34s										
Dilution factor for Methane 10	2Q08	>5700	NS	490	ND	ND	ND	12	3,700	ND
Dilution factor for Methane 10 Dilution factor for Methane 5	3Q08 4Q08	ND 2,100	NS ND	NS 693	NS 0.53	ND 0.35 J	0.34 ND	NS 23.9	2,800 490	NS ND
Dilution for Ammonia Nitrogen 5, Methane 200	1Q09	NM	NS	NS	ND	ND	ND	NS NS	7,200	ND
Dilution factor for Methane 100	2Q09	NA	26.4	369	0.16	0.38 J	ND	8.7	8,600	ND
Dilution factor for Methane 50	3Q09	150	56.4	NS	ND	ND	ND	4.9 J	9,600	ND
Dilution factor for Methane 20 Dilution factor for Nitrate 5, TDS 2, Methane 400	4Q09 1Q10	45 9,300	293 27	462 400	ND ND	ND 0.13	ND ND	9.8 2.8	4,400	ND ND
Dilution factor for Nitrate 5, 1DS 2, Methane 400 Dilution for Methane 200, TSS 2, TDS 10, Nitrate 5	2Q10	1,700	20	370	ND	ND	ND ND	2.8	9,200 8,700	ND ND
Dilution for Methane 200	3Q10	>30,000	NS-dry	NS-dry	NS-dry	0.032	0.084	NS-dry	3,100	ND
MW-35s	2000	. 5700	2400	F70	ND	4.0	ND	40	2.000	ND
Dilution factor for Methane is 10 Dilution factor for Methane is 10	2Q08 3Q08	>5700 ND	2100 85	570 520	ND ND	1.8 1.3	ND ND	13 ND	3,900 3,600	ND ND
Dilution factor for Methane 100	4Q08	> 5700	22.4 J	568	ND	2.9	0.16	20.6	12,000	ND ND
Dilution factor for Methane 200	1Q09	1,800	37.6	499	ND	0.8	.087 J	ND	20,000	ND
Dilution factor for Methane 200	2Q09	680	77.6	459	ND	1.1	0.19	9.4	20,000	ND
Dilution factor for Methane 100 Dilution factor for Methane 50	3Q09 4Q09	50 1,100	114.0 26.8	466 508	ND ND	1.4 0.84	0.25 ND	ND 17.1	17,000 8,400	ND ND
Dilution factor for Nitrate 5, TDS 2, Methane 1000	1Q10	680	26.6 ND	460	ND ND	0.04	0.08	0.9	17,000	ND ND
Dilution for Methane 400, TSS 2, TDS 20, Nitrate 5	2Q10	76	38	540	ND	0.081	0.079	ND	15,000	ND
Dilution for Methane 250, Nitrate 5	3Q10	170	35	570	ND	0.15	0.11	4.6	13,000	ND
Atmospheric Blank	1Q05	> 5700	ND	ND	ND	ND	ND	ND	ND	NS
	4Q05	5	ND	10.0 J	ND	ND	ND	0.30 J	ND	NS
	1Q06	2	ND	ND	ND	ND	ND	ND 4.5.1	ND	NS ND*
	2Q06 3Q06	38 ND	ND ND	ND ND	ND ND	ND ND	ND ND	1.5 J ND	ND ND	ND* ND*
	4Q06	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	1Q07	1	ND	ND	ND	ND	ND	ND	22	ND*
	2Q07	ND	ND	19	ND	ND	ND	ND	ND	ND*
	3Q07 4Q07	ND ND	ND ND	ND ND	ND ND	ND 0.16	ND ND	ND ND	ND ND	ND* ND*
	4Q07 1Q08	ND ND	ND ND	ND ND	ND ND	0.16	ND ND	ND ND	ND ND	ND*
	2Q08	ND	ND	ND	ND	ND	ND	ND	ND	0.0051*
	3Q08	ND	ND	ND	ND	0.16	ND	ND	ND	ND*
	4Q08	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	1Q09	ND	ND	ND	ND	ND	ND	ND	ND	ND*

Dayco Corporation/L.E. Carpenter Superfund Site Borough of Wharton, Morris County, New Jersey Quarterly Groundwater Monitoring - MNA Analytical Data

Well ID	Sampling Event	Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate ⁽¹⁾	Methane	Dissolved Lead
	UNITS	cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NEW JERSEY GROUNDWATER QUALITY CLASS IIA	STANDARDS	NCS	NCS	500	NCS	NCS	NCS	250	NCS	.005(2)
	2Q09	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	3Q09	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	4Q09	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	1Q10	ND	11	ND	0.35	ND	ND	ND	ND	ND*
Dilution factor for Nitrate, Lead, and TDS 5	2Q10	ND	ND	ND	ND	ND	ND	ND	ND	ND*
Dilution factor for Nitrate and Lead 5	3Q10	ND	ND	ND	ND	ND	ND	ND	ND	ND*
Rinsate Blank	1Q05	36	ND	ND	ND	ND	ND	ND	ND	NS
	3Q05	ND	ND	ND	ND	ND	ND	ND	ND	NS
	4Q05	ND	ND	ND	ND	ND	ND	ND	ND	NS
	1Q06	ND	ND	ND	ND	ND	ND	ND	ND	NS
	2Q06	120	ND	ND	ND	ND	ND	ND	ND	ND*
	2Q06	250	ND	ND	ND	ND	ND	ND	ND	ND*
	3Q06	45	ND	ND	ND	ND	ND	ND	ND	ND*
	3Q06	84	ND	ND	ND	ND	ND	ND	ND	ND*
	4Q06	56	ND	ND	ND	ND	ND	ND	ND	ND*
	1Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	1Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	2Q07	1	ND	2.5	ND	ND	ND	ND	ND	ND*
	2Q07	2	ND	ND	ND	ND	ND	ND	ND	ND*
	3Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	3Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	4Q07	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	4Q07	ND	ND	11	0.17	ND	ND	ND	ND	ND*
	1Q08	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	1Q08	ND	ND	ND	ND	ND	0.15	ND	ND	ND*
	2Q08	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	2Q08	ND	ND	ND	ND	ND	ND	ND	ND	ND*
	3Q08	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND* ND*
20.00	3Q08 4Q08	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND*
RB-02 RB-03				ND ND	ND ND			ND ND	ND ND	ND*
RB-03 RB-02	4Q08 1Q09	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND*
RB-02 RB-03	1Q09 1Q09	26	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND*
RB-03 RB-01	1Q09 2Q09	1	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND*
RB-01	2Q09 2Q09	ND	ND	ND	ND ND	ND ND	ND ND	ND	ND ND	ND*
RB-01	3Q09	32	ND	ND	ND	ND ND	ND ND	ND	ND	ND*
RB-02	3Q09 3Q09	ND	ND	ND	ND ND	ND	ND ND	ND	ND	ND*
RB-02	4Q09	ND	ND	ND	ND	ND	ND ND	ND	ND	ND*
RB-02 Dilution for Nitrate 5, TSS 2	1Q10	1	24	ND	ND	ND	ND ND	0.66	ND	ND*
RB-02 Dilution for Nitrate 5, TDS 2	2Q10	ND	ND	ND	ND	ND	ND	ND	ND	ND*
RB-02 Dilution for Leaed & Nitrate 5	3Q10	1	ND	110	ND	ND	ND	ND	2.7	ND*
	54.5	•	.,_		.,,,			1		
			l .			l				

Notes:

As mentioned in January 13, 2005 letter, only the MW-19 Hotspot wells will be sampled for MNA parameters due to the implementation of Source Reduction on the L.E. Carpenter property effective 1Q05.

Groundwater monitoring wells MW-19, MW-19-1, MW-19-2, MW-19-3, MW-19-4, MW-19-5, MW-19-6, MW-19-7, MW-19-10, MW-19-11, GEI-2S, and GEI-2I were abandoned in October 2009.

(1) Sulfate results reported through 4Q06, and starting again in 4Q08, have a dilution factor of 5, except for blank samples or unless otherwise noted.

- Sulfate results reported through 4Q00, and starting again in 4Q00, have a dilution factor for sulfate unless noted otherwise.
- (2) NJ CLASS IIA GWQC, NJ SWQC [FW2] and PQL are for Total Lead
- (3) MW-19 area monitoring wells were abandoned in 4Q2009. Therefore, MW-19 area wells have not been sampled for MNA parameters since 1Q10. MNA monitoring will continue following the installation of the USEPA approved post excavation monitoring well network.

Legend:

NCS: No Criteria Specified by NJDEP

NS = Not Sampled

 $\label{eq:FS} \textit{FS= Samples frozen in transit to lab}.$

ND = Not Detected

1.2

NA = Not Analyzed, due to lack of recharge water

Concentration exceeds NJGWQS

Lower Grab Sample

- Upper Grab Sample
- * Total Lead

Well ID	Event	DO (mg/L)	рН	ORP (mV)	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkalinity (ppm)	CO2 (mg/L)
MW-19-12	2Q06	0.99	7.29	-33	1046	9	16.06	4	120	100
	3Q06	0.21	7.41	5	1460	18	17.9	4	12	17
	4Q06	0.23	7.60	191	1234	10	16.72	3.5	1000	17
	1Q07	0.18	6.91	-39.6	680	8	12.29	1.5	100	10
	2Q07	2	7.24	137	473	5	18.56	0	110	11
	3Q07	2	7.45	118	463	2	19.2	0	85	0
	4Q07	9	7.55	2.7	439	8.1	9.68	0	110	<10
	1Q08	2	6.72	78.4	197.2	2	7.59	0	40	<10
	2Q08	7.4	7.09	79	386	0.12	13.31	0	110	<10
	3Q08	4.29	7.23	51	369	6	19.58	0	70	12
	4Q08	4.63	6.72	91	500	2	13.64	0.1	110	12
	1Q09 2Q09	6.47 9.6	7.91 7.59	72 18	568 621	0.5 7.18	7.47 9.29	0.1 0	120 70	<10 6
	3Q09	4.98	7.11	123	464	1	17.23	0	70	13
	4Q09	5.7	7.11	164	507	3	13.16	0	100	15
	1Q10	7.27	7.86	352	207	1	6.65	0	100	20
	2Q10	5.20	7.53	42.2	377	9.30	12.22	NM	NM	NM
	3Q10	5.17	6.81	151	423	8.00	18.90	NM	NM	NM
MW-8	3Q08	0.06	7.04	-162	571	20	15.63	>20	260	30
	4Q08	0.23	6.99	-51	175	70	12.91	14	40	<100
	1Q09	0.1	8.08	-198	607	52.3	9.19	>10	125	30
	2Q09	0.1	7.16	12.3	268	39	8.11	>20	160	60
	3Q09	0.07	7.14	-165.1	633	13	13.34	>20	150	30
	4Q09	0.07	8.53	-177	442	28	13.01	>20	100	25
	1Q10	0.04	7.51	-193	417	48.9	8.53	>20	160	16
	2Q10	0.04	7.06	-126.5	440	24.2	10.58	>20	120	13
	3Q10	0.09	7.22	-196	573	24.5	15.50	>20	200	35
MW-25R	2Q06	0.47	6.77	-102	620	9	14.74	3.5	75	17
WW-25K	3Q06	0.47	5.57	90.1	572	229	15.67	5	160	350
	4Q06	0.25	7.14	-41.2	517	24	11.33	1.5	90	100
	1Q07	1.8	6.80	-100.4	636	55	7.15	3	100	150
	2Q07	0.35	6.69	-65.8	453	123	14.38	3.5	40	20
	3Q07	1	6.98	-75.3	355	NM-mtr broke	18.93	0.3	75	15
	4Q07	0.6	7.15	30	616	127	6.81	2	100	110
	1Q08	0.34	7.32	-79	639	47.6	7.87	4.5	150	12.5
	2Q08	0.21	7.20	-80	601	46	10.95	4.5	150	15
	3Q08	0.24	6.55	-110.7	446	19.2	15.71	2.5	160	70
	4Q08	1.66	7.25	22.7	227	5.9	9.6	1	70	<10
	1Q09	0.71	7.22	21.8	383	8	5.00	0.5	120	<10
	2Q09	0.58	7.11	-40	376	8	6.48	2	70	7
	3Q09	0.15	6.77	-64	604	19.3	15.93	3	150	20
	4Q09	0.82	8.11	-44	726	121	10.94	2	70	20
	1Q10	3.1 1.29	7.08 6.98	-46 -56.2	455	45.4 117	3.32 11.04	2	90 50	25 11
	2Q10 3Q10	1.62	7.00	-36.2	515 666	32.5	17.07	NS NS	NS NS	
	30/10	1.02	7.00	-40	000					
							17.07		ING	NS
MW-27s	2006*	1 66	7 74	183	933					
MW-27s	2Q06* 3Q06	1.66 0.54	7.74 7.72	183 45	933 1437	>1000	16.65	0 0	80	<10 14
MW-27s	2Q06* 3Q06 4Q06	1.66 0.54 2.36	7.74 7.72 7.59		933 1437 1275			0		<10
MW-27s	3Q06	0.54	7.72	45	1437	>1000 247	16.65 19.44	0	80 200	<10 14
MW-27s	3Q06 4Q06	0.54 2.36	7.72 7.59	45 134	1437 1275	>1000 247 >1000	16.65 19.44 16.39	0 0 0	80 200 <10	<10 14 20
MW-27s	3Q06 4Q06 1Q07	0.54 2.36 4	7.72 7.59 7.15 7.09 7.24	45 134 -10.8	1437 1275 1078	>1000 247 >1000 >1000	16.65 19.44 16.39 8.31	0 0 0 NM - sediment	80 200 <10 NM - sediment	<10 14 20 NM - sediment
MW-27s	3Q06 4Q06 1Q07 2Q07 3Q07 4Q07	0.54 2.36 4 8.29	7.72 7.59 7.15 7.09 7.24 7.16	45 134 -10.8 105.6 27 165	1437 1275 1078 765 1017 1002	>1000 247 >1000 >1000 >1000 >1000 997	16.65 19.44 16.39 8.31 15.23 17.58 11.34	0 0 0 NM - sediment NM - sediment	80 200 <10 NM - sediment NM - sediment	<10 14 20 NM - sediment NM - sediment
MW-27s	3Q06 4Q06 1Q07 2Q07 3Q07 4Q07 1Q08	0.54 2.36 4 8.29 0.4 1	7.72 7.59 7.15 7.09 7.24 7.16 7.15	45 134 -10.8 105.6 27 165 71.5	1437 1275 1078 765 1017 1002 612.7	>1000 247 >1000 >1000 >1000 >1000 997 186	16.65 19.44 16.39 8.31 15.23 17.58 11.34 8.41	0 0 0 NM - sediment NM - sediment NM - sediment NM - sediment	80 200 <10 NM - sediment	<10 14 20 NM - sediment
MW-27s	3Q06 4Q06 1Q07 2Q07 3Q07 4Q07 1Q08 2Q08	0.54 2.36 4 8.29 0.4 1 1	7.72 7.59 7.15 7.09 7.24 7.16 7.15 7.18	45 134 -10.8 105.6 27 165 71.5 111.1	1437 1275 1078 765 1017 1002 612.7 735	>1000 247 >1000 >1000 >1000 >1000 >1000 997 186 81.1	16.65 19.44 16.39 8.31 15.23 17.58 11.34 8.41 11.43	0 0 0 NM - sediment NM - sediment NM - sediment NM - sediment NM - sediment	80 200 <10 NM - sediment 22.5	<10 14 20 NM - sediment
MW-27s	3Q06 4Q06 1Q07 2Q07 3Q07 4Q07 1Q08 2Q08 3Q08	0.54 2.36 4 8.29 0.4 1 1 1 3.21	7.72 7.59 7.15 7.09 7.24 7.16 7.15 7.18 6.21	45 134 -10.8 105.6 27 165 71.5 111.1 46	1437 1275 1078 765 1017 1002 612.7 735 861	>1000 247 >1000 >1000 >1000 >1000 997 186 81.1 184	16.65 19.44 16.39 8.31 15.23 17.58 11.34 8.41 11.43 17.09	0 0 0 NM - sediment NM - sediment NM - sediment NM - sediment O	80 200 <10 NM - sediment NM - sediment NM - sediment NM - sediment 22.5 225	<10 14 20 NM - sediment 85 135
MW-27s	3Q06 4Q06 1Q07 2Q07 3Q07 4Q07 1Q08 2Q08 3Q08 4Q08	0.54 2.36 4 8.29 0.4 1 1 1 3.21 2.63	7.72 7.59 7.15 7.09 7.24 7.16 7.15 7.18 6.21 6.99	45 134 -10.8 105.6 27 165 71.5 111.1 46 34.4	1437 1275 1078 765 1017 1002 612.7 735 861 626	>1000 247 >1000 >1000 >1000 >1000 997 186 81.1 184 47.2	16.65 19.44 16.39 8.31 15.23 17.58 11.34 8.41 11.43 17.09 13.67	0 0 0 NM - sediment NM - sediment NM - sediment NM - sediment O 0.8 NM - ran dry	80 200 <10 NM - sediment NM - sediment NM - sediment NM - sediment 22.5 225 NM - ran dry	<10 14 20 NM - sediment Sediment NM - sediment NM - sediment 85 135 NM - ran dry
MW-27s	3Q06 4Q06 1Q07 2Q07 3Q07 4Q07 1Q08 2Q08 3Q08 4Q08 1Q09	0.54 2.36 4 8.29 0.4 1 1 1 3.21 2.63 1.12	7.72 7.59 7.15 7.09 7.24 7.16 7.15 7.18 6.21 6.99 7.35	45 134 -10.8 105.6 27 165 71.5 111.1 46 34.4 51.3	1437 1275 1078 765 1017 1002 612.7 735 861 626 522	>1000 247 >1000 >1000 >1000 >1000 997 186 81.1 184 47.2	16.65 19.44 16.39 8.31 15.23 17.58 11.34 8.41 11.43 17.09 13.67	0 0 NM - sediment O 0.8 NM - ran dry 0.1	80 200 <10 NM - sediment 22.5 225 NM - ran dry 200	<10 14 20 NM - sediment AB5 135 NM - ran dry 20
MW-27s	3Q06 4Q06 1Q07 2Q07 3Q07 4Q07 1Q08 2Q08 3Q08 4Q08 1Q09 2Q09	0.54 2.36 4 8.29 0.4 1 1 1 3.21 2.63 1.12	7.72 7.59 7.15 7.09 7.24 7.16 7.15 7.18 6.21 6.99 7.35 8.2	45 134 -10.8 105.6 27 165 71.5 111.1 46 34.4 51.3 -71	1437 1275 1078 765 1017 1002 612.7 735 861 626 522 486	>1000 247 >1000 >1000 >1000 >1000 997 186 81.1 184 47.2 1000 62	16.65 19.44 16.39 8.31 15.23 17.58 11.34 8.41 11.43 17.09 13.67 10.67 9.08	0 0 0 NM - sediment NM - sediment NM - sediment NM - sediment 0 0.8 NM - ran dry 0.1 0.6	80 200 <10 NM - sediment 22.5 225 NM - ran dry 200 150	<10 14 20 NM - sediment AM - sediment S T S T S T S T S T S T S T S T S T S
MW-27s	3Q06 4Q06 1Q07 2Q07 3Q07 4Q07 1Q08 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09	0.54 2.36 4 8.29 0.4 1 1 1 3.21 2.63 1.12 1.55 0.61	7.72 7.59 7.15 7.09 7.24 7.16 7.15 7.18 6.21 6.99 7.35 8.2 7.59	45 134 -10.8 105.6 27 165 71.5 111.1 46 34.4 51.3 -71	1437 1275 1078 765 1017 1002 612.7 735 861 626 522 486 675	>1000 247 >1000 >1000 >1000 >1000 997 186 81.1 184 47.2 1000 62 24.8	16.65 19.44 16.39 8.31 15.23 17.58 11.34 8.41 11.43 17.09 13.67 10.67 9.08 15.29	0 0 0 NM - sediment 0 0.8 NM - ran dry 0.1 0.6 1	80 200 <10 NM - sediment 22.5 225 NM - ran dry 200 150 250	<10 14 20 NM - sediment AM - sediment AM - sediment 25 135 NM - ran dry 20 15 20
MW-27s	3Q06 4Q06 1Q07 2Q07 3Q07 4Q07 1Q08 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09	0.54 2.36 4 8.29 0.4 1 1 3.21 2.63 1.12 1.55 0.61 5.12	7.72 7.59 7.15 7.09 7.24 7.16 7.15 7.18 6.21 6.99 7.35 8.2 7.59	45 134 -10.8 105.6 27 165 71.5 111.1 46 34.4 51.3 -71 15	1437 1275 1078 765 1017 1002 612.7 735 861 626 522 486 675 1180	>1000 247 >1000 247 >1000 >1000 >1000 >1000 997 186 81.1 184 47.2 1000 62 24.8 108	16.65 19.44 16.39 8.31 15.23 17.58 11.34 8.41 11.43 17.09 13.67 10.67 9.08 15.29	0 0 0 NM - sediment O 0.8 NM - ran dry 0.1 0.6 1 NM	80 200 <10 NM - sediment 22.5 225 NM - ran dry 200 150 250 NM	<10 14 20 NM - sediment 135 NM - ran dry 20 15 20 NM
MW-27s	3Q06 4Q06 1Q07 2Q07 3Q07 1Q08 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09 1Q10	0.54 2.36 4 8.29 0.4 1 1 3.21 2.63 1.12 1.55 0.61 5.12 3.04	7.72 7.59 7.15 7.09 7.16 7.16 7.15 7.18 6.21 6.99 7.35 8.2 7.59 8.31	45 134 -10.8 105.6 27 165 71.5 111.1 46 34.4 51.3 -71 15 -5	1437 1275 1078 765 1017 1002 612.7 735 861 626 522 486 675 1180 705	>1000 247 >1000 247 >1000 >1000 >1000 >1000 >1000 997 186 81.1 184 47.2 1000 62 24.8 108 107	16.65 19.44 16.39 8.31 15.23 17.58 11.34 8.41 11.43 17.09 13.67 10.67 9.08 15.29 15.93 9.37	0 0 0 NM - sediment O 0.8 NM - ran dry 0.1 0.6 1 NM 0.3	80 200 <10 NM - sediment 22.5 225 NM - ran dry 200 150 250 NM 200	<10 14 20 NM - sediment 135 NM - ran dry 20 15 20 NM 20
MW-27s	3Q06 4Q06 1Q07 2Q07 3Q07 4Q07 1Q08 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09 1Q10 2Q10	0.54 2.36 4 8.29 0.4 1 1 1 3.21 2.63 1.12 1.55 0.61 5.12 3.04 0.89	7.72 7.59 7.15 7.09 7.24 7.16 7.18 6.21 6.99 7.35 8.2 7.59 8.31 7.82 7.41	45 134 -10.8 105.6 27 165 71.5 111.1 46 34.4 51.3 -71 15	1437 1275 1078 765 1017 1002 612.7 735 861 626 522 486 675 1180 705	>1000 247 >1000 247 >1000 >1000 >1000 >1000 997 186 81.1 184 47.2 1000 62 24.8 108 107 92	16.65 19.44 16.39 8.31 15.23 17.58 11.34 8.41 11.43 17.09 13.67 10.67 9.08 15.29 15.93 9.37 10.28	0 0 0 NM - sediment 0 0.8 NM - ran dry 0.1 0.6 1 NM	80 200 <10 NM - sediment 22.5 225 NM - ran dry 200 150 250 NM 200 70	<10 14 20 NM - sediment 135 NM - ran dry 20 15 20 NM 20 12
MW-27s	3Q06 4Q06 1Q07 2Q07 3Q07 1Q08 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09 1Q10	0.54 2.36 4 8.29 0.4 1 1 3.21 2.63 1.12 1.55 0.61 5.12 3.04	7.72 7.59 7.15 7.09 7.16 7.16 7.15 7.18 6.21 6.99 7.35 8.2 7.59 8.31	45 134 -10.8 105.6 27 165 71.5 111.1 46 34.4 51.3 -71 15 -5 -84.5	1437 1275 1078 765 1017 1002 612.7 735 861 626 522 486 675 1180 705	>1000 247 >1000 247 >1000 >1000 >1000 >1000 >1000 997 186 81.1 184 47.2 1000 62 24.8 108 107	16.65 19.44 16.39 8.31 15.23 17.58 11.34 8.41 11.43 17.09 13.67 10.67 9.08 15.29 15.93 9.37	0 0 0 NM - sediment O 0.8 NM - ran dry 0.1 0.6 1 NM 0.3	80 200 <10 NM - sediment 22.5 225 NM - ran dry 200 150 250 NM 200	<10 14 20 NM - sediment SS 135 NM - ran dry 20 15 20 NM 20 NM
MW-27s	3Q06 4Q06 1Q07 2Q07 3Q07 4Q07 1Q08 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09 1Q10 2Q10	0.54 2.36 4 8.29 0.4 1 1 1 3.21 2.63 1.12 1.55 0.61 5.12 3.04 0.89	7.72 7.59 7.15 7.09 7.24 7.16 7.18 6.21 6.99 7.35 8.2 7.59 8.31 7.82 7.41	45 134 -10.8 105.6 27 165 71.5 111.1 46 34.4 51.3 -71 15 -5 -84.5	1437 1275 1078 765 1017 1002 612.7 735 861 626 522 486 675 1180 705	>1000 247 >1000 247 >1000 >1000 >1000 >1000 >1000 997 186 81.1 184 47.2 1000 62 24.8 108 107 92	16.65 19.44 16.39 8.31 15.23 17.58 11.34 8.41 11.43 17.09 13.67 10.67 9.08 15.29 15.93 9.37 10.28	0 0 0 NM - sediment 0 0.8 NM - ran dry 0.1 0.6 1 NM	80 200 <10 NM - sediment 22.5 225 NM - ran dry 200 150 250 NM 200 70	<10 14 20 NM - sediment SS 135 NM - ran dry 20 15 20 NM 20 12
	3Q06 4Q06 1Q07 2Q07 3Q07 4Q07 1Q08 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09 1Q10 2Q10 3Q10	0.54 2.36 4 8.29 0.4 1 1 1 3.21 2.63 1.12 1.55 0.61 5.12 3.04 0.89	7.72 7.59 7.15 7.09 7.24 7.15 7.18 6.21 6.99 7.35 8.2 7.59 8.31 7.82 7.41 6.81	45 134 -10.8 105.6 27 165 71.5 111.1 46 34.4 51.3 -71 15 -5 -84.5 -29.6 -43	1437 1275 1078 765 1017 1002 612.7 735 861 626 522 486 675 1180 705 669	>1000 247 >1000 247 >1000 >1000 >1000 >1000 997 186 81.1 184 47.2 1000 62 24.8 108 107 92 >1000	16.65 19.44 16.39 8.31 15.23 17.58 11.34 8.41 11.43 17.09 13.67 10.67 9.08 15.29 15.93 9.37 10.28 15.98	0 0 0 NM - sediment 0 0.8 NM - ran dry 0.1 0.6 1 NM 0.3 0.4 0.5	80 200 <10 NM - sediment 22.5 225 NM - ran dry 200 150 250 NM 200 70 70	<10 14 20 NM - sediment 20 15 20 NM 20 12 20 12
	3Q06 4Q06 1Q07 2Q07 3Q07 4Q07 1Q08 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09 1Q10 2Q10 3Q10	0.54 2.36 4 8.29 0.4 1 1 1 3.21 2.63 1.12 1.55 0.61 5.12 3.04 0.54	7.72 7.59 7.15 7.09 7.24 7.16 7.15 7.18 6.21 6.99 7.35 8.2 7.59 8.31 7.82 7.41 6.81	45 134 -10.8 105.6 27 165 71.5 111.1 46 34.4 51.3 -71 15 -5 -84.5 -29.6 -43	1437 1275 1078 765 1017 1002 612.7 735 861 626 522 486 675 1180 705 669 1147	>1000 247 >1000 >1000 >1000 >1000 >1000 997 186 81.1 184 47.2 1000 62 24.8 108 107 92 >1000	16.65 19.44 16.39 8.31 15.23 17.58 11.34 8.41 11.43 17.09 13.67 10.67 9.08 15.29 15.93 9.37 10.28 15.98	0 0 0 NM - sediment 0 0.8 NM - ran dry 0.1 0.6 1 NM 0.3 0.4 0.5	80 200 <10 NM - sediment 22.5 225 NM - ran dry 200 150 250 NM 200 70 70	<10 14 20 NM - sediment 20 15 20 NMM 20 12 20 37
	3Q06 4Q06 1Q07 2Q07 3Q07 4Q07 1Q08 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09 1Q10 2Q10 3Q10 2Q10 3Q10	0.54 2.36 4 8.29 0.4 1 1 1 3.21 2.63 1.12 1.55 0.61 5.12 3.04 0.89 0.54	7.72 7.59 7.15 7.09 7.24 7.16 7.15 7.18 6.21 6.99 7.35 8.2 7.59 8.31 7.82 7.41 6.81	45 134 -10.8 105.6 27 165 71.5 111.1 46 34.4 51.3 -71 15 -5 -84.5 -29.6 -43	1437 1275 1078 765 1017 1002 612.7 735 861 626 522 486 675 1180 705 669 1147	>1000 247 >1000 247 >1000 >1000 >1000 >1000 997 186 81.1 184 47.2 1000 62 24.8 108 107 92 >1000	16.65 19.44 16.39 8.31 15.23 17.58 11.34 8.41 11.43 17.09 13.67 10.67 9.08 15.29 15.93 9.37 10.28 15.98 14.38 17.69	0 0 0 NM - sediment 0 0.8 NM - ran dry 0.1 0.6 1 NM 0.3 0.4 0.5	80 200 <10 NM - sediment 22.5 225 NM - ran dry 200 150 250 NM 200 70 70 82 180	<10 14 20 NM - sediment 20 15 20 NM 20 12 20 37 90

Well ID	Event	DO (mg/L)	рН	ORP (mV)	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkalinity (ppm)	CO2 (mg/L)
	3Q07	0.1	7.1	-132.1	576	9.6	16.99	>20	180	50
	4Q07	0.2	6.86	-120.4	634	7.03	11.97	>20	170	22
	1Q08	0.11	7.3	-169	492	11.3	9.22	15	130	20
	2Q08	0.19	6.57	-52.4	508	9.13	12.25	>10	140	35
	3Q08	0.29	6.91	-65.1	390	9.54 339	15.33	>20 NM	200	35
	3Q08 4Q08	0.05	6.8 6.94	-92 -81.5	494 395	7.96	16.5 13.88	>20	NM 170	NM <100
	4Q08 1Q09	0.05	7.59	-01.5	466	9.86	9.63	>20	115	22
	2Q09	0.06	6.75	-76.6	392	9.00	9.26	>20	150	40
	3Q09	0.06	6.93	-114.2	899	9.66	14.81	>20	160	40
	4Q09	0.4	8.52	-143	830	6	13.25	>20	70	20
	1Q10	0.09	7.00	-132.9	502	9.6	8.71	20	35	16
	2Q10	0.06	6.99	-109.4	324	9.6	11.41	14	100	13
	3Q10	0.07	7.18	-153	658	9	15.50	>20	100	18
MW-28i	2Q06	0.23	7.88	-126	756	8	15	>10	135	28
	3Q06	0.51	7.59	-98	649	14	16.42	18	90	27
	4Q06	0.04	7.37	-146.7	598	13	14.82	>20	150	25
	1Q07 2Q07	0.2	6.80	-173.3 -170	686	4.9 17	10.7	>20	140	23
	3Q07	0.18 0.1	7.07 7.15	-170 -104.7	507 536	5.7	14.9 16.19	>20 >20	145 170	24 30
	4Q07	0.1	6.59	-104.7	677	7.44	11.96	>20	160	20
	1Q08	0.20	6.81	-100.2	400.2	6	10.31	12	135	20
	2Q08	0.01	6.65	-4.8	593	7.75	12.99	>10	170	35
	3Q08	0.21	7.34	-136	530	10	14.94	>20	170	23
	4Q08	0.04	7.28	-68	442	8.81	14.23	>20	160	<100
	1Q09	0.13	7.07	-34	548	7.67	11.19	>20	150	25
	2Q09	0.05	6.35	-29.1	407	20	9.97	>20	100	60
	3Q09	0.52	7.88	-96	1007	4	13.70	20	50	50
	4Q09	0.13	8.43	-146	828	26	13.21	20	70	18
	1Q10	0.08	7.07	145.2	664	7.87	10.00	16	30	15
	2Q10	0.06	7.02	-112.1	372	9.8	12.06	12	70	14
	3Q10	0.08	7.25	-149	681	9.5	14.38	16	100	20
MW-29s	2000	3.63	7.32	-32	1021	68	18.45	- 10	260	95
IVIVV-295	2Q06 3Q06	0.36	6.73	-109.8	1021	10	20.63	>10 18	310	80
	4Q06	0.05	6.85	-97.9	775	11	17.04	>10	350	65
	1Q07	0.7	6.53	-163.9	902	5.6	8.77	18	240	30
	2Q07	4.03	6.71	-113.8	766	31	18.48	>10	225	25
	3Q07	0.7	6.66	-13.9	881	9.84	21.12	>20	325	100
	4Q07	0.2	7.12	-35	960	8	13.51	>20	285	75
	1Q08	0.21	7.02	-94	1027	9.92	7.87	>10	290	22
	2Q08	0.27	6.89	31.2	935	5.9	12.22	>20	250	70
	3Q08	0.08	6.61	-79.7	456	8.09	20.04	>10	300	130
	4Q08	0.09	6.91	-127	798	6	17.6	>20	250	36
	1Q09	1.14	6.72	62.8	564	6.78	9.00	20	200	50
	2Q09	0.05	7.09	-89.7	578	8	9.13	>20	350	70
	3Q09	0.07	6.47	-115.1	922	9.51	17.91	>20	250	80
	4Q09 1Q10	0.21	7.85	-99 -74	837 596	7.3	7.50	>20 NM	70	35
	2Q10	0.11	6.70	-98.5	728	8.33	10.64	>20	100	50
	3Q10	0.12	6.69	-156	1008	9.8	18.57	>20	100	35
								-		
MW-30s	2Q06	0.14	6.76	-180	672	34	16.81	>10	78	14
	3Q06	0.39	5.66	73.1	704	155	18.9	18	60	250
	4Q06	0.01	7.09	-146.1	627	94	13.46	>20	200	60
	1Q07	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q07	0.34	6.99	-159.4	458	213	18.55	>20	225	40
	3Q07	0.3	7.05	-128.7	696	100	19.15	>20	230	37
	4Q07	0.8	7.45	-50 150	871	67	7.74	>20	200	43
	1Q08	0.12	7.32 7.49	-158 -47.6	825 484	113 9.42	4.85	>20 18	NM - sediment 160	NM - sediment
	2Q08			-47.6 -128.1			11.43 19.06			22.5 70
	3Q08 4Q08	0.03 0.05	6.93 6.66	-128.1	378 468	9.65	19.06	>10 >20	200 50	20
	4Q08 1Q09	NS-frozen	NS-frozen	-2.3 NS-frozen	NS-frozen	9.65 NS-frozen	NS-frozen	>20 NS-frozen	NS-frozen	NS-frozen
	2Q09	0.17	6.94	-238	956	9.47	7.67	+20	80	40
	3Q09	0.06	6.93	-118.2	724	9.5	18.26	>20	225	50
	4Q09	0.14	8.57	-110.2	906	9.5	12.18	>20	70	25
	1Q10	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q10	1.45	6.92	-91.1	633	18	10.23	>20	100	30
	3Q10	0.1	7.00	-149	866	24.9	17.85	>20	100	25

Well ID	Event	DO (mg/L)	pН	ORP (mV)	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkalinity (ppm)	CO2 (mg/L)
MW-30i	2Q06	0.33	7.70	-194	687	8	15.22	5.5	75	19
	3Q06	0.43	7.52	-63	777	9	17.13	18	180	32
	4Q06	0.2	7.16	-144.2	827	42	14.2	>10	>1000	45
	1Q07	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q07	0.33	6.99	-146.8	486	41	15.23	>20	145	25
	3Q07	0.4	7.08	-19.8	661	NM-mtr broke	17.07	>20	200	29
	4Q07	1	7.39	-15	889	136	8.28	>20	200	24
	1Q08	0.13	6.7	-149	784	9.98	8.55	>20	150	18
	2Q08	0.08	7.29	-142	581	21	12.28	16	140	26
	3Q08	0.04	73.11	-136.0	552	8.56	16.62	>10	180	50
	4Q08	0.3	7.43	-133	715	6	13.57	>20	165	27
	1Q09 2Q09	NS-frozen	NS-frozen	NS-frozen -222	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen 50	NS-frozen
		0.32	6.73 7.06		930	5.7	8.75	20		32
	3Q09 4Q09	0.05 0.1	8.46	-143.2 -148	682 878	9.62 20	15.86 12.95	18 14	180 100	50 18
	1Q10	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q10	0.07	7.06	-120.9	605	7.31	9.61	14	70	22
	3Q10	0.33	7.00	-160	806	21	15.55	16	70	20
	30(10	0.55	7.1	-100	000		10.00	10	70	20
MW-30d	2Q06	0.3	5.35	-131	449	10	14.45	2	100	30
300	3Q06	2.49	7	-44	458	15	15.07	2.5	70	70
	4Q06	0.18	7.29	-99	637	33	13.39	5	130	17
	1Q07	NS-frozen		NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q07	0.38	7.03	-95.7	340	69	14.51	3.5	115	12
	3Q07	0.8	7.24	22.6	401	NM-mtr broke	14.73	3	130	13
	4Q07	0.1	7.05	128	500	80	10.02	0.4	100	<10
	1Q08	0.45	6.8	1	487	16.3	9.19	1.5	130	<10
	2Q08	0.32	7.24	-62	504	18	12.87	2	125	14
	3Q08	0.2	7.3	-112.3	328	9.41	15.26	2.5	115	14
	4Q08	0.19	7.48	-114	532	12	12.59	6	125	13
	1Q09	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen	NS-frozen
	2Q09	0.18	7.03	-197	608	14	10.87	3	80	13
	3Q09	0.22	7.19	-110	450	14.5	13.79	2	130	13
	4Q09	0.18	8.68	-119	635	9	12.61	2	50	11
	1Q10	0.2	7.25	-87	508	9.2	10.25	2	150	11
	2Q10	0.24	7.17	-56.3	377	23.2	10.87	2	40	10
	3Q10	7.8	7.41	-65	492	51	13.2	1	40	20
MW-31s	2Q08	0.51	12.47	-192	1,499	>1000	15.74	1	225	0
	3Q08	0.97	6.54	-27	2,130	381	21.79	4.5	1000	400
	4Q08 1Q09	0.16	8.13	34.7 71	488 567	7.64 15	12.99 5.45	NM-No Water	NM-No Water	NM-No Water
	1009	0.43	10.98	-127.6				0.1	200	0
	2000	0.40					0.04		225	40
	2Q09	0.16	8.68		540	28	6.61	0.4	225	18
	3Q09	0.24	10.67	-144.1	795	6.22	18.68	0.5	170	NM-No Water
	3Q09 4Q09	0.24 0.54	10.67 9.03	-144.1 -72	795 1019	6.22 37	18.68 13.41	0.5 >20	170 100	NM-No Water NM-No Water
	3Q09 4Q09 1Q10	0.24 0.54 2.26	10.67 9.03 11.57	-144.1 -72 -148	795 1019 670	6.22 37 79.4	18.68 13.41 4.42	0.5 >20 0	170 100 140	NM-No Water NM-No Water 0
	3Q09 4Q09 1Q10 2Q10	0.24 0.54 2.26 1.65	10.67 9.03 11.57 11.26	-144.1 -72 -148 -116.6	795 1019 670 905	6.22 37 79.4 3.98	18.68 13.41 4.42 10.38	0.5 >20 0	170 100 140 200	NM-No Water NM-No Water 0 0
	3Q09 4Q09 1Q10	0.24 0.54 2.26	10.67 9.03 11.57	-144.1 -72 -148	795 1019 670	6.22 37 79.4	18.68 13.41 4.42	0.5 >20 0	170 100 140	NM-No Water NM-No Water 0
MW-32s	3Q09 4Q09 1Q10 2Q10 3Q10	0.24 0.54 2.26 1.65 0.38	10.67 9.03 11.57 11.26 8.86	-144.1 -72 -148 -116.6 -272	795 1019 670 905 900	6.22 37 79.4 3.98 >1000	18.68 13.41 4.42 10.38 18.80	0.5 >20 0 0 NM-No Water	170 100 140 200 NM-No Water	NM-No Water NM-No Water 0 0 NM-No Water
MW-32s	3Q09 4Q09 1Q10 2Q10	0.24 0.54 2.26 1.65	10.67 9.03 11.57 11.26	-144.1 -72 -148 -116.6	795 1019 670 905 900	6.22 37 79.4 3.98 >1000	18.68 13.41 4.42 10.38 18.80	0.5 >20 0 0 NM-No Water	170 100 140 200	NM-No Water NM-No Water 0 0 NM-No Water
MW-32s	3Q09 4Q09 1Q10 2Q10 3Q10	0.24 0.54 2.26 1.65 0.38	10.67 9.03 11.57 11.26 8.86	-144.1 -72 -148 -116.6 -272	795 1019 670 905 900	6.22 37 79.4 3.98 >1000	18.68 13.41 4.42 10.38 18.80	0.5 >20 0 0 NM-No Water	170 100 140 200 NM-No Water	NM-No Water NM-No Water 0 0 NM-No Water
MW-32s	3Q09 4Q09 1Q10 2Q10 3Q10 2Q08 3Q08	0.24 0.54 2.26 1.65 0.38 0.33 0.07	10.67 9.03 11.57 11.26 8.86 6.9 6.47	-144.1 -72 -148 -116.6 -272 -86 -149.6	795 1019 670 905 900 1,105 1,169	6.22 37 79.4 3.98 >1000	18.68 13.41 4.42 10.38 18.80 12.11 22.56	0.5 >20 0 0 NM-No Water NM-No Water NM-No Water	170 100 140 200 NM-No Water NM-No Water NM-No Water	NM-No Water NM-No Water 0 0 NM-No Water NM-No Water NM-No Water
MW-32s	3Q09 4Q09 1Q10 2Q10 3Q10 2Q08 3Q08 4Q08	0.24 0.54 2.26 1.65 0.38 0.33 0.07 0.41	10.67 9.03 11.57 11.26 8.86 6.9 6.47 6.68	-144.1 -72 -148 -116.6 -272 -86 -149.6 -20.4	795 1019 670 905 900 1,105 1,169 799	6.22 37 79.4 3.98 >1000 109 15.9 14	18.68 13.41 4.42 10.38 18.80 12.11 22.56 14.72	0.5 >20 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water	170 100 140 200 NM-No Water NM-No Water NM-No Water NM-No Water	NM-No Water NM-No Water 0 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water
MW-32s	3Q09 4Q09 1Q10 2Q10 3Q10 2Q08 3Q08 4Q08 1Q09	0.24 0.54 2.26 1.65 0.38 0.33 0.07 0.41 0.32	10.67 9.03 11.57 11.26 8.86 6.9 6.47 6.68 6.94	-144.1 -72 -148 -116.6 -272 -86 -149.6 -20.4 42.1	795 1019 670 905 900 1,105 1,169 799 665	6.22 37 79.4 3.98 >1000 109 15.9 14 8	18.68 13.41 4.42 10.38 18.80 12.11 22.56 14.72 5.60	0.5 >20 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water	170 100 140 200 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water	NM-No Water NM-No Water 0 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water
MW-32s	3Q09 4Q09 1Q10 2Q10 3Q10 2Q08 3Q08 4Q08 1Q09 2Q09	0.24 0.54 2.26 1.65 0.38 0.33 0.07 0.41 0.32 0.29	10.67 9.03 11.57 11.26 8.86 6.9 6.47 6.68 6.94 6.61	-144.1 -72 -148 -116.6 -272 -86 -149.6 -20.4 42.1 -132.8	795 1019 670 905 900 1,105 1,169 799 665 659	6.22 37 79.4 3.98 >1000 109 15.9 14 8 12	18.68 13.41 4.42 10.38 18.80 12.11 22.56 14.72 5.60 6.62	0.5 >20 0 NM-No Water	170 100 140 200 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 250	NM-No Water NM-No Water 0 0 NM-No Water
MW-32s	3Q09 4Q09 1Q10 2Q10 3Q10 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09	0.24 0.54 2.26 1.65 0.38 0.33 0.07 0.41 0.32 0.29 0.19	10.67 9.03 11.57 11.26 8.86 6.9 6.47 6.68 6.94 6.61 6.63	-144.1 -72 -148 -116.6 -272 -86 -149.6 -20.4 42.1 -132.8 -111.4	795 1019 670 905 900 1,105 1,169 799 665 659 952	6.22 37 79.4 3.98 >1000 109 15.9 14 8 12 5.17	18.68 13.41 4.42 10.38 18.80 12.11 22.56 14.72 5.60 6.62 18.70	0.5 >20 0 NM-No Water >20 >20	170 100 140 200 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 250 500	NM-No Water NM-No Water 0 0 NM-No Water
MW-32s	3Q09 4Q09 1Q10 2Q10 3Q10 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09	0.24 0.54 2.26 1.65 0.38 0.33 0.07 0.41 0.32 0.29 0.19 0.3	10.67 9.03 11.57 11.26 8.86 6.9 6.47 6.68 6.94 6.61 6.63 7.77	-144.1 -72 -148 -116.6 -272 -86 -149.6 -20.4 42.1 -132.8 -111.4 -53	795 1019 670 905 900 1,105 1,169 799 665 659 952 1276	6.22 37 79.4 3.98 >1000 109 15.9 14 8 12 5.17 169	18.68 13.41 4.42 10.38 18.80 12.11 22.56 14.72 5.60 6.62 18.70 13.04	0.5 >20 0 NM-No Water >20 >20 NM-No Water	170 100 140 200 NM-No Water NM-No Water NM-No Water NM-No Water 250 500 NM-No Water	NM-No Water NM-No Water 0 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 100 NM-No Water 80 100 NM-No Water
MW-32s	3Q09 4Q09 1Q10 2Q10 3Q10 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09 1Q10	0.24 0.54 2.26 1.65 0.38 0.33 0.07 0.41 0.32 0.29 0.19 0.3 0.45	10.67 9.03 11.57 11.26 8.86 6.9 6.47 6.68 6.94 6.61 6.63 7.77 6.68	-144.1 -72 -148 -116.6 -272 -86 -149.6 -20.4 42.1 -132.8 -111.4 -53 -82	795 1019 670 905 900 1,105 1,169 799 665 659 952 1276 687	6.22 37 79.4 3.98 >1000 109 15.9 14 8 12 5.17 169 10.3	18.68 13.41 4.42 10.38 18.80 12.11 22.56 14.72 5.60 6.62 18.70 13.04 3.89	0.5 >20 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water >20 >20 NM-No Water >20	170 100 140 200 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 250 500 NM-No Water 200	NM-No Water NM-No Water 0 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 100 NM-No Water 30
	3Q09 4Q09 1Q10 2Q10 3Q10 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09 1Q10 2Q10 3Q10	0.24 0.54 2.26 1.65 0.38 0.33 0.07 0.41 0.32 0.29 0.19 0.3 0.45 0.27 0.56	10.67 9.03 11.57 11.26 8.86 6.9 6.47 6.68 6.94 6.61 6.63 7.77 6.68 6.64 6.37	-144.1 -72 -148 -116.6 -272 -86 -149.6 -20.4 42.1 -132.8 -111.4 -53 -82 -106.0 -134.0	795 1019 670 905 900 1,105 1,169 799 665 659 952 1276 687 825 974	6.22 37 79.4 3.98 >1000 109 15.9 14 8 12 5.17 169 10.3 5.38 221	18.68 13.41 4.42 10.38 18.80 12.11 22.56 14.72 5.60 6.62 18.70 13.04 3.89 10.50 19.23	0.5 >20 0 NM-No Water >20 >20 NM-No Water >20 >20 NM-No Water	170 100 140 200 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 250 500 NM-No Water 200 200 NM-No Water	NM-No Water NM-No Water 0 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 100 NM-No Water 30 30 NM-No Water
MW-32s	3Q09 4Q09 1Q10 2Q10 3Q10 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09 1Q10 2Q10 3Q10	0.24 0.54 2.26 1.65 0.38 0.33 0.07 0.41 0.32 0.29 0.19 0.3 0.45 0.27 0.56	10.67 9.03 11.57 11.26 8.86 6.9 6.47 6.68 6.94 6.61 6.63 7.77 6.68 6.64 6.37	-144.1 -72 -148 -116.6 -272 -86 -149.6 -20.4 42.1 -132.8 -111.4 -53 -82 -106.0 -134.0	795 1019 670 905 900 1,105 1,169 799 665 665 659 952 1276 687 825 974	6.22 37 79.4 3.98 >1000 109 15.9 14 8 12 5.17 169 10.3 5.38 221	18.68 13.41 4.42 10.38 18.80 12.11 22.56 14.72 5.60 6.62 18.70 13.04 3.89 10.50 19.23	0.5 >20 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water >20 >20 NM-No Water >20 >20 NM-No Water	170 100 140 200 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 250 500 NM-No Water 200 200 NM-No Water	NM-No Water NM-No Water 0 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 100 NM-No Water 30 30 NM-No Water
	3Q09 4Q09 1Q10 2Q10 3Q10 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09 1Q10 2Q10 3Q10	0.24 0.54 2.26 1.65 0.38 0.33 0.07 0.41 0.32 0.29 0.19 0.3 0.45 0.27 0.56	10.67 9.03 11.57 11.26 8.86 6.9 6.47 6.68 6.94 6.61 6.63 7.77 6.68 6.64 6.37	-144.1 -72 -148 -116.6 -272 -86 -149.6 -20.4 42.1 -132.8 -111.4 -53 -82 -106.0 -134.0	795 1019 670 905 900 1,105 1,169 799 665 659 952 1276 687 825 974	6.22 37 79.4 3.98 >1000 109 15.9 14 8 12 5.17 169 10.3 5.38 221	18.68 13.41 4.42 10.38 18.80 12.11 22.56 14.72 5.60 6.62 18.70 13.04 3.89 10.50 19.23	0.5 >20 0 NM-No Water >20 >20 NM-No Water >20 >20 NM-No Water	170 100 140 200 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 250 500 NM-No Water 200 200 NM-No Water	NM-No Water NM-No Water 0 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 100 NM-No Water 30 30 NM-No Water
	3Q09 4Q09 1Q10 2Q10 3Q10 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09 1Q10 2Q10 3Q10	0.24 0.54 2.26 1.65 0.38 0.33 0.07 0.41 0.32 0.29 0.19 0.3 0.45 0.27 0.56	10.67 9.03 11.57 11.26 8.86 6.9 6.47 6.68 6.94 6.61 6.63 7.77 6.68 6.64 6.37	-144.1 -72 -148 -116.6 -272 -86 -149.6 -20.4 42.1 -132.8 -111.4 -53 -82 -106.0 -134.0	795 1019 670 905 900 1,105 1,169 799 665 665 659 952 1276 687 825 974	6.22 37 79.4 3.98 >1000 109 15.9 14 8 12 5.17 169 10.3 5.38 221	18.68 13.41 4.42 10.38 18.80 12.11 22.56 14.72 5.60 6.62 18.70 13.04 3.89 10.50 19.23	0.5 >20 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water >20 >20 NM-No Water >20 >20 NM-No Water	170 100 140 200 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 250 500 NM-No Water 200 200 NM-No Water	NM-No Water NM-No Water 0 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 100 NM-No Water 30 30 NM-No Water
	3Q09 4Q09 1Q10 2Q10 3Q10 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09 1Q10 2Q10 3Q10 2Q10 3Q10	0.24 0.54 2.26 1.65 0.38 0.33 0.07 0.41 0.32 0.29 0.19 0.3 0.45 0.27 0.56	10.67 9.03 11.57 11.26 8.86 6.9 6.47 6.68 6.94 6.61 6.63 7.77 6.68 6.64 6.37	-144.1 -72 -148 -116.6 -272 -86 -149.6 -20.4 42.1 -132.8 -111.4 -53 -82 -106.0 -134.0	795 1019 670 905 900 1,105 1,169 799 665 659 952 1276 687 825 974 650 616 607 567	6.22 37 79.4 3.98 >1000 109 15.9 14 8 12 5.17 169 10.3 5.38 221	18.68 13.41 4.42 10.38 18.80 12.11 22.56 14.72 5.60 6.62 18.70 13.04 3.89 10.50 19.23 12.98 26.4 13.1 5.29	0.5 >20 0 NM-No Water >20 >20 NM-No Water	170 100 140 200 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 250 500 NM-No Water 200 200 NM-No Water	NM-No Water NM-No Water 0 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 100 NM-No Water 30 100 NM-No Water 30 NM-No Water 70 200
	3Q09 4Q09 1Q10 2Q10 3Q10 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09 1Q10 2Q10 3Q10 2Q08 3Q10	0.24 0.54 2.26 1.65 0.38 0.37 0.41 0.32 0.29 0.19 0.3 0.45 0.27 0.56	10.67 9.03 11.57 11.26 8.86 6.9 6.47 6.68 6.94 6.61 6.63 7.77 6.68 6.64 6.37 7.29 6.06 6.44 5.2 6.79	-144.1 -72 -148 -116.6 -272 -86 -149.6 -20.4 42.1 -132.8 -111.4 -53 -82 -106.0 -134.0 -74 NM 5.7 168.5 -39.4	795 1019 670 905 900 1,105 1,169 799 665 659 952 1276 687 825 974 650 616 607 567 577	6.22 37 79.4 3.98 >1000 109 15.9 14 8 12 5.17 169 10.3 5.38 221 682 148 14 38 38.6	18.68 13.41 4.42 10.38 18.80 12.11 22.56 14.72 5.60 6.62 18.70 13.04 3.89 10.50 19.23 12.98 26.4 13.1 5.29 5.86	0.5 >20 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water >20 >20 NM-No Water >20 NM-No Water >20 >20 NM-No Water >20 NM-No Water >20 NM-No Water >20 >20 NM-No Water >20 NM-No Water >20 >20 NM-No Water >20 >20 NM-No Water	170 100 140 200 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 250 500 NM-No Water 200 200 NM-No Water 180 310 NM-No Water	NM-No Water NM-No Water 0 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 100 NM-No Water 30 30 NM-No Water 70 200 NM-No Water
	3Q09 4Q09 1Q10 2Q10 3Q10 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09 1Q10 2Q10 3Q10 2Q08 3Q08 4Q09 1Q10 2Q10 3Q10	0.24 0.54 2.26 1.65 0.38 0.33 0.07 0.41 0.32 0.29 0.19 0.3 0.45 0.27 0.56 0.77 2.55 0.21 0.37 0.61 0.18	10.67 9.03 11.57 11.26 8.86 6.9 6.47 6.68 6.94 6.61 6.63 7.77 6.68 6.64 6.37 7.29 6.06 6.44 5.2 6.79 6.56	-144.1 -72 -148 -116.6 -272 -86 -149.6 -20.4 42.1 -132.8 -111.4 -53 -82 -106.0 -134.0 -74 NMM 5.7 168.5 -39.4 -82.7	795 1019 670 905 900 1,105 1,169 799 665 659 952 1276 687 825 974 650 616 607 567 577	6.22 37 79.4 3.98 >1000 109 15.9 14 8 12 5.17 169 10.3 5.38 221 682 148 14 38 38.6 16.9	18.68 13.41 4.42 10.38 18.80 12.11 22.56 14.72 5.60 6.62 18.70 13.04 3.89 10.50 19.23 12.98 26.4 13.1 5.29 5.86 17.63	0.5 >20 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water >20 >20 NM-No Water >20 >20 NM-No Water >20 >20 NM-No Water 20 >20 >20 >20 >20 >20 >20 >20	170 100 140 200 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 250 500 NM-No Water 200 200 NM-No Water 180 310 NM-No Water 225 350 500	NM-No Water NM-No Water 0 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 30 30 NM-No Water 70 200 NM-No Water 60 80
	3Q09 4Q09 1Q10 2Q10 3Q10 3Q10 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09 1Q10 2Q10 3Q10 2Q10 3Q10 2Q08 3Q08 4Q08 3Q08 4Q08 3Q08 4Q08 3Q08 4Q08	0.24 0.54 2.26 1.65 0.38 0.33 0.07 0.41 0.32 0.29 0.19 0.3 0.45 0.27 0.56 0.77 2.55 0.21 0.37 0.61 0.18 2.96	10.67 9.03 11.57 11.26 8.86 6.9 6.47 6.68 6.94 6.61 6.63 7.77 6.68 6.64 6.37 7.29 6.06 6.44 5.2 6.79 6.56 7.79	-144.1 -72 -148 -116.6 -272 -86 -149.6 -20.4 42.1 -132.8 -111.4 -53 -82 -106.0 -134.0 -74 NM 5.7 168.5 -39.4 -82.7 -46	795 1019 670 905 900 1,105 1,169 799 665 665 659 952 1276 687 825 974 650 616 607 567 577 1226 1381	6.22 37 79.4 3.98 >1000 109 15.9 14 8 12 5.17 169 10.3 5.38 221 682 148 14 38 38.6 16.9 314	18.68 13.41 4.42 10.38 18.80 12.11 22.56 14.72 5.60 6.62 18.70 13.04 3.89 10.50 19.23 12.98 26.4 13.1 5.29 5.86 17.63 14.13	0.5 >20 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water >20 >20 NM-No Water >20 NM-No Water >20 NM-No Water >20 NM-No Water >20 >20 NM-No Water >20 >20 NM-No Water >20 >20 >20 >20 >20 >20 >20 >20 >20 >20	170 100 140 200 NM-No Water NM-No Water NM-No Water NM-No Water 100 100 100 100 100 100 100 100 100 10	NM-No Water NM-No Water 0 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 30 30 NM-No Water 70 200 NM-No Water 60 80 150 35
	3Q09 4Q09 1Q10 2Q10 3Q10 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09 1Q10 2Q10 3Q10 2Q10 3Q10 2Q08 3Q08 4Q09 1Q10 2Q10 3Q10	0.24 0.54 2.26 1.65 0.38 0.33 0.07 0.41 0.32 0.29 0.19 0.3 0.45 0.27 0.56 0.77 2.55 0.21 0.37 0.61 0.18 2.96 0.93	10.67 9.03 11.57 11.26 8.86 6.9 6.47 6.68 6.94 6.61 6.63 7.77 6.68 6.64 6.37 7.29 6.06 6.44 5.2 6.79 6.56 7.79 6.79	-144.1 -72 -148 -116.6 -272 -86 -149.6 -20.4 42.1 -132.8 -111.4 -53 -82 -106.0 -134.0 -74 NM 5.7 168.5 -39.4 -82.7 -46 -96.7	795 1019 670 905 900 1,105 1,169 799 665 659 952 1276 687 825 974 650 616 607 567 577 1226 1381 776	6.22 37 79.4 3.98 >1000 109 15.9 14 8 12 5.17 169 10.3 5.38 221 682 148 14 38 38.6 16.9 314 52.3	18.68 13.41 4.42 10.38 18.80 12.11 22.56 14.72 5.60 6.62 18.70 13.04 3.89 10.50 19.23 12.98 26.4 13.1 5.29 5.86 17.63 14.13 4.20	0.5 >20 0 NM-No Water >20 >20 NM-No Water >20 NM-No Water >20 NM-No Water >20 >20 NM-No Water >20 >20 >20 >20 >20 >20 >20 >20 >20 >20	170 100 140 200 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 250 500 NM-No Water 200 200 NM-No Water 200 200 NM-No Water 225 350 500 400 300	NM-No Water NM-No Water 0 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 100 NM-No Water 30 100 NM-No Water 30 NM-No Water 60 80 150 35
	3Q09 4Q09 1Q10 2Q10 3Q10 3Q10 2Q08 3Q08 4Q08 1Q09 2Q09 3Q09 4Q09 1Q10 2Q10 3Q10 2Q10 3Q10 2Q08 3Q08 4Q08 3Q08 4Q08 3Q08 4Q08 3Q08 4Q08	0.24 0.54 2.26 1.65 0.38 0.33 0.07 0.41 0.32 0.29 0.19 0.3 0.45 0.27 0.56 0.77 2.55 0.21 0.37 0.61 0.18 2.96	10.67 9.03 11.57 11.26 8.86 6.9 6.47 6.68 6.94 6.61 6.63 7.77 6.68 6.64 6.37 7.29 6.06 6.44 5.2 6.79 6.56 7.79	-144.1 -72 -148 -116.6 -272 -86 -149.6 -20.4 42.1 -132.8 -111.4 -53 -82 -106.0 -134.0 -74 NM 5.7 168.5 -39.4 -82.7 -46	795 1019 670 905 900 1,105 1,169 799 665 665 659 952 1276 687 825 974 650 616 607 567 577 1226 1381	6.22 37 79.4 3.98 >1000 109 15.9 14 8 12 5.17 169 10.3 5.38 221 682 148 14 38 38.6 16.9 314	18.68 13.41 4.42 10.38 18.80 12.11 22.56 14.72 5.60 6.62 18.70 13.04 3.89 10.50 19.23 12.98 26.4 13.1 5.29 5.86 17.63 14.13	0.5 >20 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water >20 >20 NM-No Water >20 NM-No Water >20 NM-No Water >20 NM-No Water >20 >20 NM-No Water >20 >20 NM-No Water >20 >20 >20 >20 >20 >20 >20 >20 >20 >20	170 100 140 200 NM-No Water NM-No Water NM-No Water NM-No Water 100 100 100 100 100 100 100 100 100 10	NM-No Water NM-No Water 0 0 NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water NM-No Water 30 30 NM-No Water 70 200 NM-No Water 60 80 150 35

Well ID	Event	DO (mg/L)	рН	ORP (mV)	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkalinity (ppm)	CO2 (mg/L)
MW-34s	2Q08	0.51	7.01	-111	794	7	14.84	NM-No Water	NM-No Water	NM-No Water
	3Q08	0.15	6.4	-136.3	1240	12.1	20.19	NM-No Water	NM-No Water	NM-No Water
	4Q08	0.48	6.62	50.7	686	13.5	14.83	NM-No Water	NM-No Water	NM-No Water
	1Q09	0.27	7.33	23.9	557	9	5.90	NM-No Water	NM-No Water	NM-No Water
	2Q09	0.44	7.32	-82.5	488	10	6.57	8	300	30
	3Q09	0.36	6.51	-89	761	6.08	17.40	NM-No Water	NM-No Water	NM-No Water
	4Q09	2.72	7.66	-30	966	31	13.15	NM-No Water	NM-No Water	NM-No Water
	1Q10	0.53	6.74	-58	500	13.1	4.31	20	70	20
	2Q10	0.39	6.58	-74.5	576	26.7	9.57	>20	250	35
	3Q10	1.00	6.16	-70	701	32.7	18.57	NM-No Water	NM-No Water	NM-No Wate
MW-35s	2Q08	0.37	6.78	-56	917	>1000	11.51	>20	310	70
	3Q08	1.5	6.35	-55	736	65	19.23	>20	260	50
	4Q08	1.35	6.87	-30.2	848	38.5	14.18	NM-No Water	NM-No Water	NM-No Water
	1Q09	0.15	7.28	3.3	607	59	5.81	>20	225	30
	2Q09	0.21	7.36	-121.9	683	53	6.40	>20	300	30
	3Q09	0.2	6.65	-108.2	896	22.2	17.49	>20	275	80
	4Q09	3.69	8.14	-56	1109	29	13.15	>20	350	30
	1Q10	0.4	6.72	-72	556	141	4.09	>20	200	25
	2Q10	0.24	6.48	-59.5	710	46.5	10.45	>20	250	30
	3Q10	0.22	6.51	-93	1006	840	18.58	NM-No Water	NM-No Water	NM-No Water

Notes:

As mentioned in January 13, 2005 letter, only the MW-19 Hotspot wells will be sampled for MNA parameters due to the implementation of Source Reduction on the L.E. Carpenter property effective 1Q05.

Groundwater monitoring wells MW-19, MW-19-1, MW-19-2, MW-19-3, MW-19-4, MW-19-5, MW-19-6, MW-19-7, MW-19-10, MW-19-11, GEI-2S, and GEI-2I were abandoned in October 2009.

NS = Not Sampled

NM = Not Measured

^{**} Additional field MNA parameters not required for MW-19-9D.

⁽¹⁾ Laboratory analyzed for alkalinity due to destroyed field kits.

^L Lower Grab Sample

Upper Grab Sample

^{*} Well was not stabalized due to well going dry.

Table 5

			ANALYTICAL PARAMETERS											
MONITORING WELLS	SAMPLE DATE	QUARTER		Benzene	Eti	hylbenzene		Toluene	То	tal Xylenes	bis-2-E	Ethylhexylphthalate (DEHP)		
		UNITS		ug/l		ug/l	ug/l			ug/l		ug/l		
APPLICABLE BACKGR 6). CONCENTRATION	AT OR BELOW	•		0.5		0.5	0.5		1.5		0.95			
SW-D-1	N.J.A.C.	7.9D-1.3 (u)0III												
*	8-Apr-05	2Q05	<	0.2	<	0.20	<	0.20	<	0.60	<	1.0		
	26-Jul-05	3Q05	<	0.2	<	0.2	J	0.5	<	0.6	<	1.0		
	26-Oct-05	4Q05	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0		
	27-Feb-06	1Q06	<	0.2	<	0.2	<	0.2	<	0.6	J	2.0		
	19-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0		
	11-Sep-06	3Q06	<	0.2	<	0.2	J	0.2	<	0.6	J	11.0		
	9-Nov-06	4Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9		
	7-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0		
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0		
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0	,	7.3		
	4-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0		
Dilution factor for DEHP 1.18	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0		4.9	<	1.2		
Dilution factor for DEHP 1.03	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0		
Dilution factor for DEHP 1.33	21-Jul-08	3Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.3		
	27-Oct-08	4Q08	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9		
	12-Jan-09	1Q09	<	0.9	<	0.8	<	0.8	<	0.9		12.0		
	6-Apr-09	2Q09	<	0.9	<	0.8	<	0.8	<	0.9	J	2.0		
	21-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	J	1.0		
	10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	J	1.0		
	13-Feb-10	1Q10	<	0.5	<	0.5	<	0.5	<	1.5		51.0		
	19-Apr-10	2Q10	<	0.5	<	0.50	<	0.5	<	1.5	<	0.95		
	23-Aug-10	3Q10	<	0.5	<	0.5	<	0.5	<	1.5		15		
	9-Sep-10	3Q10 ⁽⁵⁾	<	0.5	<	0.5	<	0.5	<	1.5		NS		
SW-D-2														
	8-Apr-05	2Q05		NS		NS		NS		NS		NS		
	26-Jul-05	3Q05	<	0.2	J	0.5	<	0.2		6.1		38.0		
	26-Oct-05	4Q05	<	0.2	J	0.6	<	0.2	J	2.0	<	1.0		
	27-Feb-06	1Q06	<	0.2	J	8.0	<	0.2	J	2.7		27.0		
	19-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	<	0.6	J	1.0		
	19-Jun-06	2Q06D	<	0.2	<	0.2	<	0.2	<	0.6	J	2.0		
	11-Sep-06 9-Nov-06	3Q06 4Q06	<	0.2	<	0.2	<	0.2	<	0.6	J	2.0 1.0		
	7-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	J	11.0		
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0		
	10-Sep-07	3Q07	<u>`</u>	1.0	<	1.0	<	5.0	<	3.0	,	3.0		
	4-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0		1.5		
Dilution factor for DEHP 1.11	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0		4.4	<	1.1		
Dilution factor for DEHP 1.18	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.2		
	21-Jul-08	3Q08	<	1.0	<	1.0	<	5.0	<	3.0		7.1		
	27-Oct-08	4Q08	<	0.2	<	0.2	<	0.2	<	0.6		13		
Dilution factor for DEHP 5	12-Jan-09	1Q09	<	0.9	<	0.8	<	0.8	<	0.9		230		
	6-Apr-09 6-Apr-09	2Q09 2Q09D	<	0.9 0.9	<	0.8	<	0.8	<	0.9 0.9	J	1.0 1.0		
	21-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	J	4.0		
	10-Nov-09	4Q09		0.9	<	0.8	<	0.8	<	0.9	J	2.0		
	10-Nov-09	4Q09D	<	0.9	<	0.8	<	0.8	<	0.9	J	5.0		
	13-Feb-10	1Q10	<	0.5	<	0.5	<	0.5	<	1.5		18.0		

		ANALYTICAL PARAMETERS										
MONITORING WELLS	SAMPLE DATE	QUARTER		Benzene	Eti	nylbenzene		Toluene	То	tal Xylenes	bis-2-E	thylhexylphthalate (DEHP)
	1	UNITS		ug/l		ug/l		ug/l		ug/l		ug/l
APPLICABLE BACKGR 6). CONCENTRATION	N AT OR BELOW			0.5		0.5		0.5		1.5		0.95
	19-Apr-10	2Q10	<	0.5		0.75	<	0.5		1.6	<	0.95
	19-Apr-10	2Q10D	<	0.5		0.78	<	0.5		1.7	<	0.95
	23-Aug-10	3Q10	<	0.5	<	0.5	<	0.5	<	1.5		23
	9-Sep-10	3Q10 ⁽⁵⁾	<	0.5	<	0.5	<	0.5	<	1.5		NS
SW-D-3												
	8-Apr-05	2Q05	<	0.2		21.0	<	0.2		79.0	J	2.0
	26-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	J	1.1	J	7.0
	26-Oct-05	4Q05	<	0.2	J	0.4	<	0.2	J	1.4	<	1.0
	27-Feb-06	1Q06		0.2		1.1	<	0.2		3.9	J	6.0
	19-Jun-06	2Q06	<u>`</u>	0.2	<	0.2	<	0.2	<	0.6	J	3.0
	11-Sep-06	3Q06		0.2	<	0.2	<	0.2	<	0.6	J	1.0
	11-Sep-06	3Q06D	<	0.2	<	0.2	<	0.2	<	0.6	J	3.0
	9-Nov-06	4Q06		0.2	<	0.2	<	0.2	<	0.6	<	1.0
	7-Feb-07	1Q07		1.0	<	1.0	<	5.0	<	3.0		3.3
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07		1.0	<	1.0	<	5.0	<	3.0		1.6
Dilution factor for DEHP 1.1	4-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
Dilution factor for DEHP 1.05	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	_	3.8	<	1.0
Bilation racion for BETT 1.00	18-Feb-08	1Q08D	<u> </u>	1.0	<	1.0	<	5.0		3.8	<	1.0
Dilution factor for DEHP 1.25	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.2
Dilution factor for DETIT 1.23	21-Jul-08	3Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	27-Oct-08	4Q08	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	12-Jan-09	1Q09		0.9	<	0.8	<	0.8	<	0.9		14
	6-Apr-09	2Q09		0.9	<	0.8	<	0.8	<	0.9	<	1.0
	21-Jul-09	3Q09		0.9	<	0.8	<	0.8	<	0.9	J	1.0
	10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8		0.9	<	1.0
	13-Feb-10	1Q10	<	0.5	<	0.5	<	0.5	<	1.5		3.0
			<			0.5			<	1.5		
	19-Apr-10	2Q10	<	0.5	<		<	0.5	<		<	0.95
	23-Aug-10	3Q10 3Q10 ⁽⁵⁾	<	0.5	<	0.5	<	0.5	<	1.5		2.3
	9-Sep-10	3Q1017	<	0.5	<	0.5	<	0.5	<	1.5		NS
SW-D-4												
	20-Jun-06	2Q06	<	0.2	<	0.2	J	0.4	<	0.6	J	3.0
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	J	2.0
	9-Nov-06	4Q06	<	0.2	J	0.4	<	0.2	J	0.6	<	0.9
	7-Feb-07	1Q07	<	1.0		2.0	<	5.0		3.8		3.3
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0		1.0
	4-Dec-07	4Q07	<	1.0		1.4	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.08	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0		4.1	<	1.1
Dilution factor for DEHP 1.08	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
	21-Jul-08	3Q08	<	1.0	<	1.0	<	5.0	<	3.0		9.2
	27-Oct-08	4Q08	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	12-Jan-09	1Q09	<	0.9		21.0	<	0.8		20		29
	6-Apr-09	2Q09	<	0.9	<	0.8	<	0.8	<	0.9	J	2.0
	20-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	J	2.0
	20-Jul-09	3Q09D	<	0.9	<	0.8	<	0.8	<	0.9	J	2.0

					ANALY	TICAL PARAM	/IETER	S				
MONITORING WELLS	SAMPLE DATE	QUARTER		Benzene	Et	hylbenzene		Toluene	То	tal Xylenes	bis-2-E	Ethylhexylphthalate (DEHP)
	1	UNITS		ug/l		ug/l		ug/l		ug/l		ug/l
APPLICABLE BACKGR 6). CONCENTRATION	N AT OR BELOW	- \		0.5		0.5		0.5		1.5		0.95
	10-Nov-09	4Q09		0.9		0.8	_	0.8	_	0.9	J	1.0
Dilution factor for DEHP 2	13-Feb-10	1Q10	<	0.5	<	0.96	<	0.5	<	1.5	J	150
Dilution factor for DEHF 2	13-Feb-10	1Q10D	<	0.5		0.90		0.5	<	1.5		43
	19-Apr-10	2Q10	<	0.5		15	<	0.5	<	48		0.95
		3Q10	<	0.5		0.5	<	0.5		1.5	<	24
	23-Aug-10		<		<		<		<			
	23-Aug-10	3Q10D	<	0.5	<	0.5	<	0.5	<	1.5		17
	9-Sep-10	3Q10 ⁽⁵⁾	<	0.5	<	0.5	<	0.5	<	1.5		NS
	9-Sep-10	3Q10D ⁽⁵⁾	<	0.5	<	0.5	<	0.5	<	1.5		NS
SW-D-5												
- 	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	J	10.0
	6-Nov-06	4Q06	<	0.2	J	0.2	<	0.2	J	0.8	<	0.9
	7-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07		1.0	<	1.0	<	5.0	<	3.0		3.4
		4Q07			_	1.0		5.0		3.0		
	3-Dec-07		<	1.0	<		<		<		<	1.0
Dilution factor for DEHP 1.1	3-Dec-07	4Q07D	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
Dilution factor for DEHP 1.03	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.25	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.2
	21-Jul-08	3Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	27-Oct-08	4Q08	<	0.2	<	0.2	<	0.2	<	0.6	J	4.0
	12-Jan-09	1Q09	<	0.9	<	0.8	<	0.8	<	0.9	J	2.0
	6-Apr-09	2Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
	20-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
	13-Feb-10	1Q10	<	0.5		0.59	<	0.5	<	1.5	<	0.94
	19-Apr-10	2Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	23-Aug-10	3Q10	<	0.5	<	0.5	<	0.5	<	1.5		4.6
	9-Sep-10	3Q10 ⁽⁵⁾	<	0.5	<	0.5	<	0.5	<	1.5		NS
DRC-2												
DICC-2	11-Sep-06	3Q06		0.2	<	0.2	<	0.2	<	0.6	<	1.0
			<									
	6-Nov-06	4Q06	<	0.2	J	0.5	<	0.2	J	1.9	<	0.9
	6-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	3-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.18	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.2
	21-Jul-08	3Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	27-Oct-08	4Q08	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	12-Jan-09	1Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	6-Apr-09	2Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	20-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
	10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
	13-Feb-10	1Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	19-Apr-10	2Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	23-Aug-10	3Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.98
	9-Sep-10	3Q10 ⁽⁵⁾	<u>`</u>	0.5	<	0.5	<	0.5	<	1.5		NS
	3 33p-10	00010		0.0	1	0.0	<u> </u>	0.0	<u> </u>	1.0		140
	I.			l .		l .	1		1	l .	_1	

					ANALY	TICAL PARAM	METER	s				
MONITORING WELLS	SAMPLE DATE	QUARTER		Benzene	Et	hylbenzene		Toluene	То	tal Xylenes	bis-2-E	Ethylhexylphthalate (DEHP)
		UNITS		ug/l		ug/l		ug/l		ug/l		ug/l
APPLICABLE BACKGR 6). CONCENTRATION	N AT OR BELOW			0.5		0.5		0.5		1.5		0.95
SW-R-1	N.J.A.C.	7.9B-1.5 (u)oiii										
OW IC	20-Apr-05 ⁽¹⁾	2Q05	<	0.2		17.0	J	0.8		99.0	J	2.0
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	J	1.0
	27-Oct-05	4Q05		0.2	<	0.2	<	0.2	<	0.6	<	1.0
	27-Feb-06	1Q06		0.2	J	0.3	<	0.2	J	1.4	<	0.9
	19-Jun-06	2Q06	<u> </u>	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	11-Sep-06	3Q06		0.2	<	0.2	<	0.2	<	0.6	<	1.0
	6-Nov-06	4Q06		0.2	J	0.2	<	0.2	J	1.1	<	1.0
	6-Feb-07	1Q07		1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07		1.0	<	1.0	<	5.0	<	3.0		1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0		1.3
	3-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.11	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
Dilution factor for DEHP 1.11	5-May-08	2Q08	<	1.0		1.2	<	5.0	_	5.9	<	1.1
Bildionidoorio Beni ino	21-Jul-08	3Q08		1.0	<	1.0	<	5.0	<	3.0	<	1.0
	27-Oct-08	4Q08	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	12-Jan-09	1Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
	6-Apr-09	2Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
	20-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
	13-Feb-10	1Q10	<	0.5		0.55	<	0.5		2.8	<	0.95
	19-Apr-10	2Q10	<	0.5		0.64	<	0.5		2.5	<	0.95
	23-Aug-10	3Q10	<	0.5	<	0.50	<	0.5	<	1.5	<	0.95
	9-Sep-10	3Q10 ⁽⁵⁾	<	0.5	<	0.50	<	0.5	<	1.5		NS
SW-R-2												
344-IX-Z	20 Apr 05	2Q05		NS		NS		NS		NS		NS
	20-Apr-05	3Q05		0.2	_	0.2	_	0.2	_	0.6		0.9
	25-Jul-05		<		<		<		<		<	
	27-Oct-05	4Q05 1Q06	<	0.2	< J	0.2 0.5	<	0.2	< J	0.6 2.3	<	0.9 1.0
	27-Feb-06		<		1	0.3	<				<	
	19-Jun-06 11-Sep-06	2Q06 3Q06	<	0.2	<	0.2	<	0.2	<	0.6 0.6	<	1.0
	6-Nov-06	4Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	6-Nov-06	4Q06 4Q06D	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	6-Nov-06 6-Feb-07	1Q07		1.0		1.0		5.0		3.0		1.0
	25-Jun-07	1Q07 2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	2Q07 3Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0 1.7
			<		<		<		<			
Dibates feater (DEUD ()	4-Dec-07 18-Feb-08	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.11 Dilution factor for DEHP 1.14	5-May-08	1Q08 2Q08	<	1.0 1.0	<	1.0 1.0	<	5.0 5.0	<	3.0	<	1.1 1.1
Simulor ractor for DERF 1.14	21-Jul-08	3Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	27-Oct-08	4Q08		0.2	<	0.2	<	0.2	<	0.6	<	0.9
	12-Jan-09	1Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	6-Apr-09	2Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	20-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
	13-Feb-10	1Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	19-Apr-10	2Q10	<	0.5		0.5	<	0.5		2.0	<	0.95

					ANALY	TICAL PARAM	/ETER	s				
MONITORING WELLS	SAMPLE DATE	QUARTER		Benzene	Et	hylbenzene		Toluene	То	tal Xylenes	bis-2-E	thylhexylphthalate (DEHP)
	II.	UNITS		ug/l		ug/l		ug/l		ug/l		ug/l
APPLICABLE BACKGR 6). CONCENTRATION	N AT OR BELOW			0.5		0.5		0.5		1.5		0.95
	23-Aug-10	3Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
		3Q10 ⁽⁵⁾		0.5		0.5				1.5	_	0.95 NS
	9-Sep-10	3010	<	0.5	<	0.5	<	0.5	<	1.5		NS.
SW-R-3												
	20-Apr-05	2Q05		NS		NS		NS		NS		NS
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	27-Feb-06	1Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	19-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	11-Sep-06	3Q06	<u> </u>	0.2	<	0.2	<	0.2	<	0.6	J	2.0
	6-Nov-06	4Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	6-Feb-07	1Q07		1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	+	3.0
	25-Jun-07 25-Jun-07	2Q07 2Q07D	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07D	<	1.0	<	1.0	<	5.0	<	3.0		3.9
	4-Dec-07	4Q07		1.0	<	1.0	1	5.0	<	3.0		1.0
División de DEUDANA	18-Feb-08	4Q07 1Q08	<	1.0		1.0	<			3.0	<	1.1
Dilution factor for DEHP 1.11	5-May-08	1Q08 2Q08	<	1.0	<	1.0	<	5.0 5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.05 Dilution factor for DEHP 1.25	5-May-08	2Q08D	<	1.0	<	1.0	<	5.0	<	3.0	<	1.2
Dilution factor for DEHP 1.25	21-Jul-08	3Q08	<	1.0	<	1.0	<	5.0	<	3.0	+	150
	21-Jul-08	3Q08R		NA		NA		NA		NA		26
	15-Aug-08	3Q08 ⁽²⁾	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	15-Aug-08	3Q08 ⁽³⁾	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	27-Oct-08	4Q08	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	27-Oct-08	4Q08D		0.2	<	0.2	<	0.2	<	0.6		1.0
	12-Jan-09	1Q09	<u> </u>	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	12-Jan-09	1Q09D	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	6-Apr-09	2Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	20-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
	13-Feb-10	1Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	19-Apr-10	2Q10		0.5	<	0.5	<	0.5	<	1.5	<	0.95
	23-Aug-10	3Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	9-Sep-10	3Q10 ⁽⁵⁾	<	0.5	<	0.5	<	0.5	<	1.5		NS
	,											
SW-R-4												
	20-Apr-05	2Q05		NS		NS		NS		NS		NS
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	27-Feb-06	1Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	19-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	6-Nov-06	4Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	6-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0		19.0
	4-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.11	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.1
	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	21-Jul-08	3Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0

		ANALYTICAL PARAMETERS										
MONITORING WELLS	SAMPLE DATE	QUARTER		Benzene	Et	hylbenzene		Toluene	То	tal Xylenes	bis-2-E	Ethylhexylphthalate (DEHP)
ADDI ICADI E DACKOD	OTIND CONCEN	UNITS		ug/l		ug/l		ug/l		ug/l		ug/l
APPLICABLE BACKGR 6). CONCENTRATION	N AT OR BELOW	-		0.5		0.5		0.5		1.5		0.95
	21-Jul-08	3Q08D	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	27-Oct-08	4Q08	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	12-Jan-09	1Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	6-Apr-09	2Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	20-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
	13-Feb-10	1Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	19-Apr-10	2Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	23-Aug-10	3Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	9-Sep-10	3Q10 ⁽⁵⁾	<	0.5	<	0.5	<	0.5	<	1.5		NS
SW-R-5												
	20-Apr-05	2Q05		NS		NS		NS		NS		NS
	25-Jul-05	3Q05	<	0.2	<	0.2	٧	0.2	<	0.6	٧	0.9
	27-Feb-06	1Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	19-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	11-Sep-06	3Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	6-Nov-06	4Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	7-Feb-07	1Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	25-Jun-07	2Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	10-Sep-07	3Q07D	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	4-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.18	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.2
	21-Jul-08	3Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	27-Oct-08	4Q08	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	12-Jan-09	1Q09	<	0.9	<	0.8	<	8.0	<	0.9	<	1.0
	6-Apr-09	2Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
	20-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
SW-R-6	27-Feb-06	1Q06		0.2		0.2		0.2		0.6		1.0
	19-Jun-06	2Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	19-Jun-06 11-Sep-06	2Q06 3Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	6-Nov-06	4Q06	<	0.2		0.2	<	0.2		0.6		0.9
	6-Nov-06 6-Feb-07	4Q06 1Q07	<	1.0	<	1.0	<		<	3.0	<	
	25-Jun-07	1Q07 2Q07	<		<	1.0	<	5.0	<	3.0	<	1.0
			<	1.0	<		<	5.0	<		<	1.0
	10-Sep-07	3Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
	4-Dec-07	4Q07	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
Dilution factor for DEHP 1.14	18-Feb-08 5-May-08	1Q08 2Q08	<_	1.0 1.0	<	1.0 1.0	<	5.0 5.0	<	3.0	<	1.1 1.1
Dilution factor for DEHP 1.11	21-Jul-08	2Q08 3Q08	<	1.0	<	1.0	<	5.0	<	3.0	< <	1.1
	27-Oct-08	4Q08	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	12-Jan-09	1Q09	<u> </u>	0.9	<	0.8	<	0.8	<	0.9	<	1.0
	6-Apr-09	2Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
	20-Jul-09	3Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9
	10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	0.9

DAYCO CORPORATION/L.E. CARPENTER SUPERFUND SITE Borough of Wharton, Morris County, New Jersey **Surface Water Monitoring Data**

					ANALY	TICAL PARAN	METER	S				
MONITORING WELLS	SAMPLE DATE	QUARTER		Benzene		nylbenzene	Toluene		Total Xylenes		bis-2-Ethylhexylphthalate (DEHP)	
	I	UNITS		ug/l		ug/l		ug/l	ug/l		ug/l	
	APPLICABLE BACKGROUND CONCENTRATION (SW-R- 6). CONCENTRATION AT OR BELOW DECTION LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii ⁽⁴⁾			0.5		0.5		0.5		1.5		0.95
				0.5		0.5		0.5				0.05
	13-Feb-10	1Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	19-Apr-10	2Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.95
	23-Aug-10	3Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	0.99
	9-Sep-10	3Q10 ⁽⁵⁾	<	0.5	<	0.5	<	0.5	<	1.5		NS
RINSE BLANK												
RB-01	18-Feb-08	1Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
RB-01	5-May-08	2Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
RB-01	21-Jul-08	3Q08	<	1.0	<	1.0	<	5.0	<	3.0	<	1.0
RB-01	27-Oct-08	4Q08	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
RB-01	10-Nov-09	4Q09	<	0.9	<	0.8	<	0.8	<	0.9	<	1.0
RB-01	13-Feb-10	1Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	1.0
RB-01	19-Apr-10	2Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	1.0
RB-01	23-Aug-10	3Q10	<	0.5	<	0.5	<	0.5	<	1.5	<	1.0
	9-Sep-10	3Q10 ⁽⁵⁾	<	0.5	<	0.5	<	0.5	<	1.5		NS

LEGEND

NA = Not Applicable

ug/L = micrograms per liter

NS = Not Sampled

Surface Water Quality Standard Reference: N.J.A.C 7:9B October 2006.

D = Duplicate sample (Dover) - Washington Pond outlet downstream to Rt. 46 bridge Cat 1 FW2-TM(C1)

R = Sample was re-run by the laboratory

B: Analyte also detected in blank

J: Estimated value. Value is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)

Concentration exceeds NJSWQS (SW-R-6 concentrations)

38.0

^{* =} Detection limit is elevated due to interference from other parameter detections. Laboratory will be contacted to lower benzene detection limit to be below the NJSWQS.

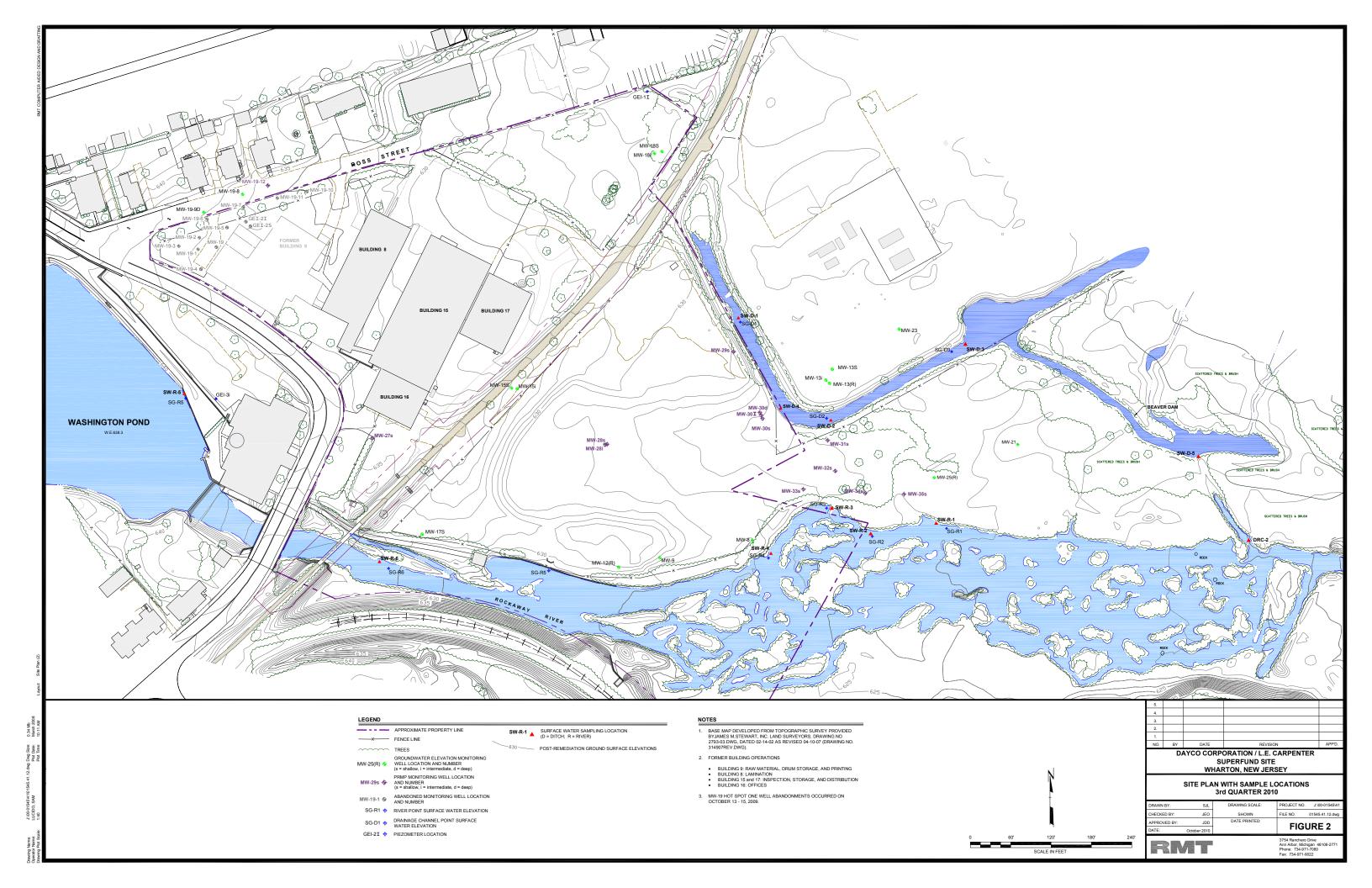
⁽¹⁾ One surface water sample was collected near the edge of the river immediately adjacent to the location of absorbent booms that were placed in order to prevent any migration into the river of sheen observed on top of quiescent water ponded within the wetland area. Due to bottle mislabeling and laboratory error, each of the five river sample bottles (R-1 through Ŕ-5) were analyzed individually instead of as a whole set. The highest concentration detected in any of the five laboratory results for the river sample are listed under SW-R-1 for April 2005.

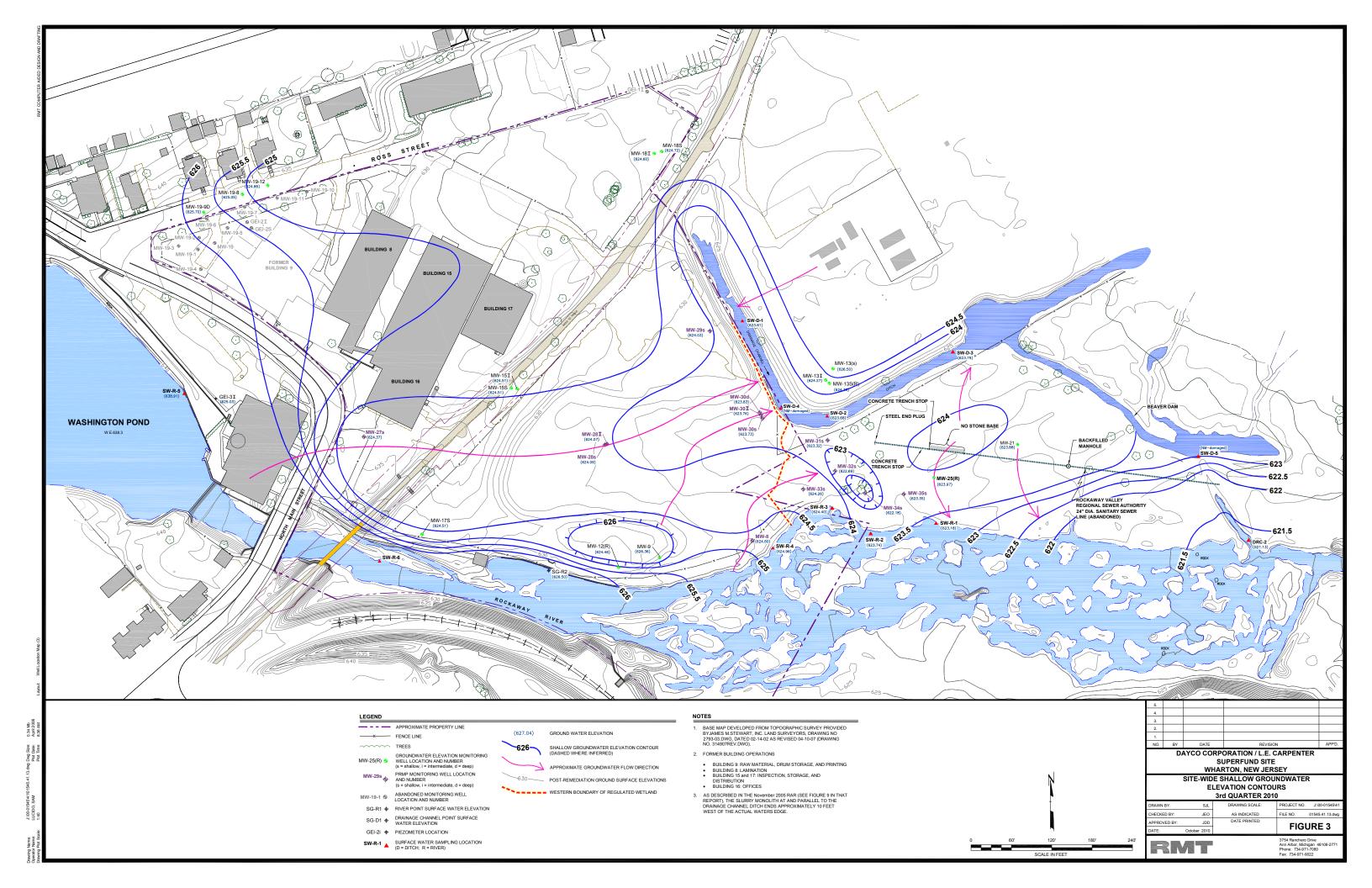
⁽²⁾ Due to believed lab contamination of the original sample, surface water location SW-R-3 was resampled and the sample alaquot was split between two labs. These results are from Environmental Science Corporation (ESC).

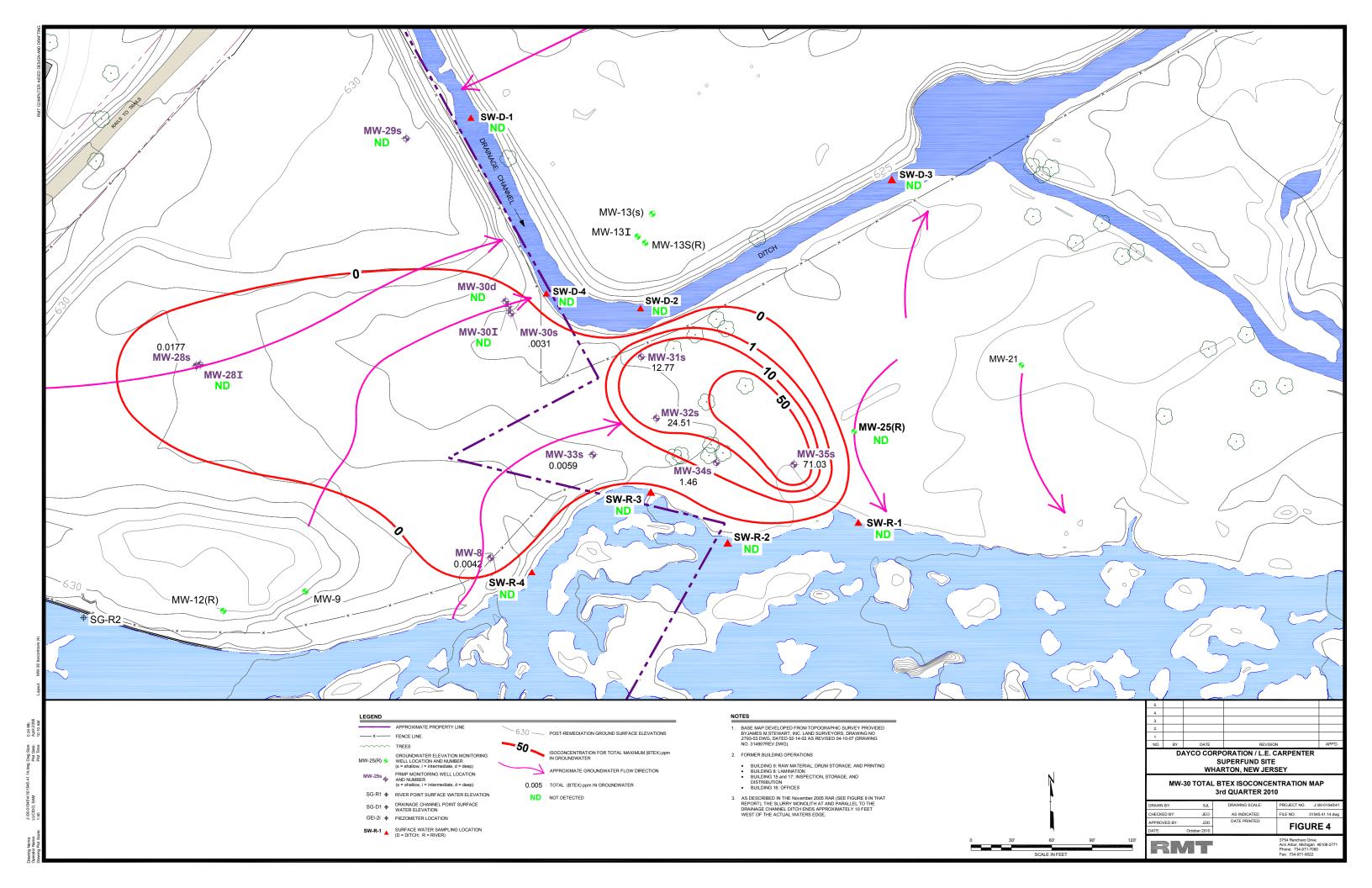
⁽³⁾ Due to believed lab contamination of the original sample, surface water location SW-R-3 was resampled and the sample alaquot was split between two labs. These results are from Lancaster Laboratories (Lancaster).

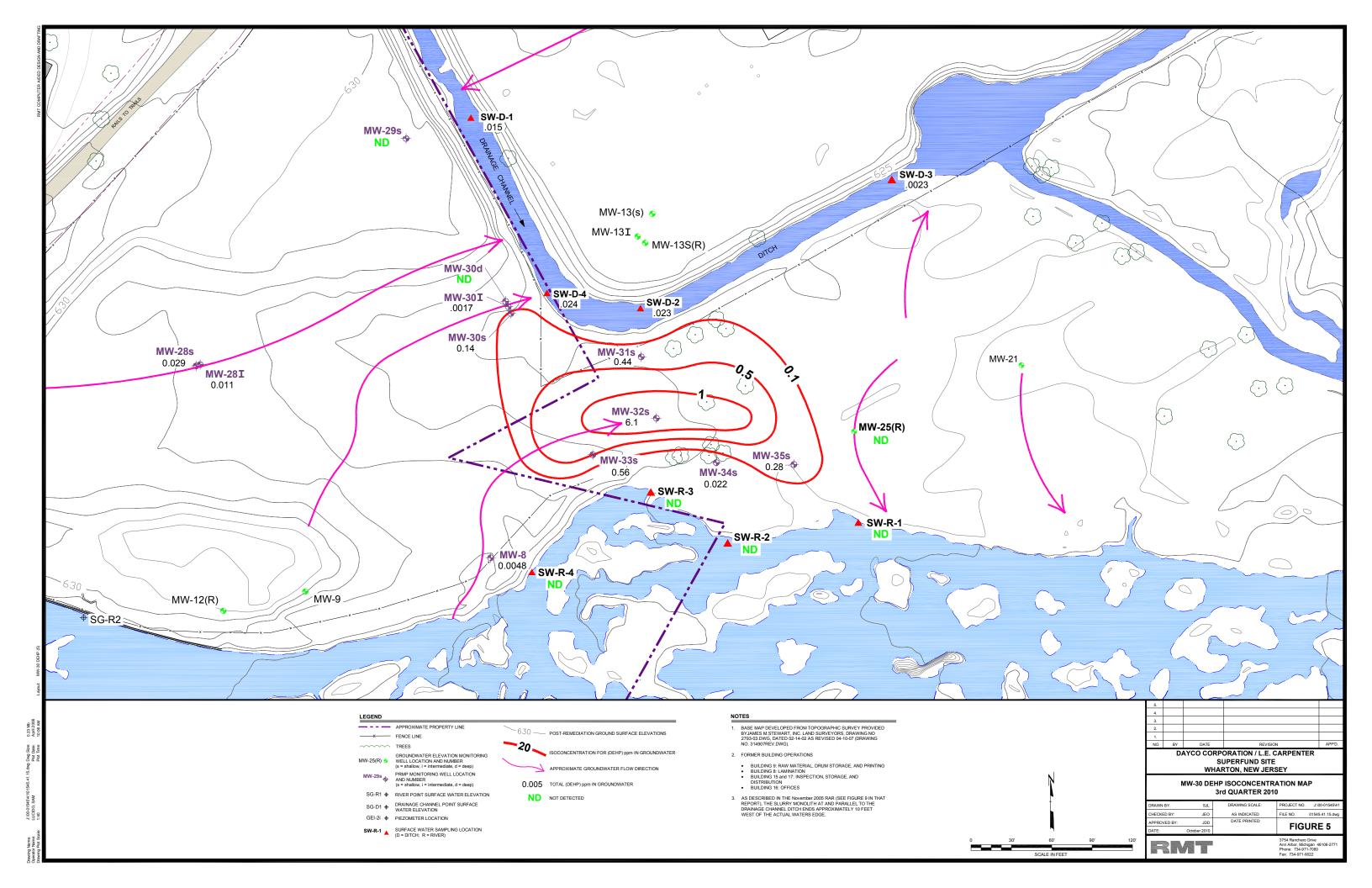
⁽⁴⁾ Per NJDEP request, along with a change in laboratories, the detection limits for the Site COCs were lowered.
(5) Due to laboratory error, original BTEX samples were analyzed outside the holding times. Surface water locations were resampled and analyzed within the appropriate holding times.

Figures









Appendix A Field Data Forms



PROJECT NAME:	LE Carpenter
PROJECT NUMBER:	01545.41.001
PROJECT MANAGER:	J. Overvoorde
SITE LOCATION:	170 N. Main Street
	Wharton, NJ 07885
DATES OF FIELDWORK:	8/23/2010 TO 8/26/2010
	3Q10 Sampling Event
PURPOSE OF FIELDWORK:	
	Scott Pawlukiewicz
WORK PERFORMED BY:	

Scot Paulikewing 8/26/10

CHECKED BY DATE



			1	/	
PROJECT NAME:	LE Carpenter	DATE: 8	23	10	TIME ARRIVED: 1030
PROJECT NUMBER:	01545.41.001	AUTHOR:	Scott	Pawlukiewicz	TIME LEFT: 1900

			WEATHER				
TEMPERATURE: 65	~10 °F	WIND: 5-(0	MPH		VISIBILITY: <u>Ø</u>	JERCAST/	RAIN
		WORK/SA	MPLING PI	ERFORMED			
- 517E-WIDE							
- COLLECT SW-R-	SURFACE	WATER SAM	les [D	RC-02	5W-D-5	5w-R-1	, Sw-R-Z,
5W-R-	3 , 5W-	R-4 5W-	D-4 /DC	p-01)	8W-R-6)	SW-D-3	}
5W-D-2	(MS/M	30), ³ 5W-1	>-17	. , ,			,
- PURGE 4	JETLAND	WELLS /	_ MW-31	ς μω.	375 MW-	-338 , 1	1W-345,
MW-3	55].			<u> </u>			/
MW-3	1w-275	5					
•							

PROBLEMS ENCOUNTER	RED	CORRECTIVE ACTION 1	TAKEN

		COMMUNICATION
NAME	REPRESENTING	SUBJECT / COMMENTS
D. Conson	LEC	CAECK-IN

2 Jan l	kur.	8/73	lic
SIGNED	Ì		DAT



PROJECT NAME: LE Carpenter	DATE:	1/24/10	TIME ARRIVED: 0630
PROJECT NUMBER: 01545.41.001	AUTHOR:	Scott Pawlukiewicz	TIME LEFT: 18(5
	WEATHER		
TEMPERATURE: 65 °F WIND:	6~(0 MPH	VISIBIL	ITY: OUEREAST
Wo	RK/SAMPLING PE	RFORMED	
- GW SAMPLE: MW-19 MW-30 - PAMIAL SAMPLE	1-17 , MW -	. 295 , MW -3	300 (MS(MSD) , MW-8
- PAMIAL SAMOLE I	From MW+2	7s (BTEX	CHY DEAP HPC)
·			
PROBLEMS ENCOUNTERED		CORRECTI	VE ACTION TAKEN

		COMMUNICATION
NAME	REPRESENTING	SUBJECT / COMMENTS
		•

B Paulik	` \ w_\)	इिर्प	((P
SIGNED	0	V	DATE



PROJECT NAME:	LE Carpenter	DATE:	8/	75	10	TIME ARRIVE	D: 0630
PROJECT NUMBER:	01545.41.001	AUTHO	R: \$	Scott F	Pawlukiewicz	TIME LEFT:	1830

WEATHER
TEMPERATURE: 65 °F WIND: 5-10 MPH VISIBILITY: OUERCAST/TACO
WORK / SAMPLING PERFORMED
· GW SAMPLE MW-275 (remaining bortles) · GW SAMPLE [MW-25CR)] - MW-345 (partial sample) - Sample Wetland wells [MW-353 , MW-345 (partial sample) , MW-335, MW-315 , MW-375 (partial)] - GW SAMPLE: MW-78I, MW-785 (DUD-07) - Collect Ringe Blanks: PR-01 (SW Sample Scoop).
· 6W Sample [mw-25 CR)] m
- Sample wettens wells [mw-353 , mw-345 (portial sample),
MW-33s, MW-31s, MW-37s (pontial)
- 6W SAMPLE: MW-78I, MW-785 (DUD-02)
- Collect Ringe Blanks: PER-OI (SW Sample Scoop).
RR-02 (Bloom Pump)
· ·

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
- Short Amber Bottles	- I Amber per each wellows
- wetland wells going any owning sample	ar well location.
, , , 4	

	COMMUNICATION					
NAME	REPRESENTING	SUBJECT / COMMENTS				
	282232-7					

S. Pauletae	i	8/25/10	
SIGNED	\Diamond	DATI	Ξ



			9		
PROJECT NAME:	LE Carpenter	DATE: 8	26	10	TIME ARRIVED:01,00
PROJECT NUMBER:	01545.41.001	AUTHOR:	Scott	Pawlukiewicz	TIME LEFT: (D(S

				•						
			1.0	1 V	WEATHER					
TEMPERATURE:	45	°F	WIND:	0-5	MPH		VISIBILITY:	CLEAR	<u>-</u>	
							Ser. 11 11 11 11 11 11 11 11 11 11 11 11 11			
			Control of the second second			RFORMED			455	
- CLEAN	/pock	Equi	phensi.			(0.ss.76)				
* Coule	CT F	ر' (ن) ک	amoles i	1 MW	-37c	(p.ss. 76)	· Mu.	345 (L	Az P	De Ph
	v		1,000	L		(l	<u> </u>	s_{l}	-
- IUSTO	IL R	Dlocam	out Stal	F GALG	K @ 50	J-10-4, 5L	2-D-5.			
- Conce	et 51	DFF GI	Juge Rea	iongs (Dire	1-10-4, 5h	OCOTIONS	5 ,		
- 5.Te	Tusa	ealor	/Site	Phote)S ,					
	3 (<i>'</i>							

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
	~

		COMMUNICATION
NAME	THREPRESENTING TO	SUBJECT / COMMENTS

Silan	lekun
SIGNED	0

8/26/10 DATE

Diemonde

9/2/10



EQUIPMENT SUMMARY

PROJECT NAME:	LE Carpenter	SAMPLER NAME:	Scott Pawlukiewicz					
PROJECT NO.:	01545.41.001	SAIVIF LER IVAIVIE.	COULT AWIUNIGWICZ					
WATER LEVEL MEASUREM	IENTS COLLECTED WITH:							
QI	ED		PROJECT DEDICATED					
NAME AND MODEL OF INSTRU	JMENT	SERIAL NUMBER	(IF APPLICABLE)					
PRODUCT LEVEL MEASUR	EMENTS COLLECTED WIT	t						
N	IA							
NAME AND MODEL OF INSTRU	JMENT	SERIAL NUMBER	(IF APPLICABLE)					
DEPTH TO BOTTOM OF WELL MEASUREMENTS COLLECTED WITH:								
QI	ED		PROJECT DEDICATED					
NAME AND MODEL OF INSTRU	JMENT	SERIAL NUMBER	(IF APPLICABLE)					
PURGING METHOD								
BLADDER PUMP (QED SAMPLE PRO)		RMT GR					
NAME AND MODEL OF PUMP	OR TYPE OF BAILER	SERIAL NUMBER (IF APPLICABLE)						
SAMPLING METHOD								
BLADDER PUMP (QED SAMPLE PRO)	RMT GR						
NAME AND MODEL OF PUMP	OR TYPE OF BAILER	SERIAL NUMBER (IF APPLICABLE)						
GEOTECH DISF	POSABLE FILTER	0.45 MICRON						
NAME AND MODEL OF FILTER	RATION DEVICE	FILTER TYPE AND SIZE						
DISPOSARI E	POLY TUBING	√ LOW-	FLOW SAMPLING EVENT					
TUBING TYPE	TOLI TOBING	_	TEOW OF WIN EING EVENT					
PURGE WATER DISPOSAL	METHOD							
GROUND] DRUM POTW		OTHER					
DECONTAMINATION AND I	EIELD BLANK WATER SOL	₹(• 1						
	BOUGHT	STORE BOUGHT						
POTABLE WATER SOURCE		DI WATER SOUR						
Dais	dolla	مام	A _ 1 1					
SIGNED	8 726/10 DATE	CHECKED BY	erroode 9/2/10 DATE					



	WATER Q	UALITY ME	TER CALIE	BRATION LOG		
PROJECT NAME:	LE Carpenter		MODEL: Af	D MP 20	SAMPLER:	SP
PROJECT NO.:	01545.41.001			PROJECT	DATE: 8-7	3-10
PH (CALIBRATION CHECK			SPECIFIC CONDU	JCTIVITY CALIE	BRATION CHECK
pH7 (LOT#): Z8 (0583 (EXP. DATE): OCT Z010 POST-CAL READING/STANDARD 7.27 / 7.00 /	PH 4 / 10 (LOT #): OAD OUP (EXP. DATE): AQQ, ZOIZ POST-CAL READING / STANDARD 4.16 / 4.00 / / / CALIBRATION CHECK TEMPERATURE (*CELSIUS)	CAL. RANGE WITHIN RANGE WITHIN RANGE WITHIN RANGE WITHIN RANGE TIME CAL. RANGE WITHIN RANGE WITHIN RANGE	POS	CAL READING WHITE CANDOUGLE ST-CAL READING/STANDARD 1 1	('CELSIUS)	CAL. RANGE WITHIN RANGE WITHIN RANGE WITHIN RANGE WITHIN RANGE
1		RANGE	-			RANGE
TUPPID	ITY CALIBRATION CHEC	RANGE			COMMENTS	RANGE
	READING (NTU) (LOT #): (EXP. DATE): POST-CAL READING / STANDARD	CAL. RANGE TIME	(LOT)	AUTOCAL SOLUTION #): DATE): LIBRATED PARAMETERS	LIST LOT NUMBERS UNDER CAI	D SOLUTION (S) S AND EXPIRATION DATES LIBRATION CHECK TION RANGES (1)
800 fx81 95/80 1 1	8.2/20 1 ozdos 1	WITHIN RANGE		COND ORP	pH: +/- 0.2 \$ COND: +/- 1% 0 ORP: +/- 25 m D.O.: VARIES	DF CAL. STANDARD
*	NOTES		_] TURB	TURB: +/- 5% (OF CAL. STANDARD
Short so	ampling day]		ANGES ARE SPECIFIC TO E WATER QUALITY METER
P	ROBLEMS ENCOUNTERED			CORRECT	TIVE ACTIONS	X X X X X X X X X X X X X X X X X X X
S. Paulet	8/23	DATE		CHECKED BY	onde	9/2/10 DATE

WATER QUALITY METER CALIBRATION LOG

DDO IDOT MANE		UALIT WEI				CANADI	=D. O'	<u> </u>	-
PROJECT NAME:	LE Carpenter		MODEL: (2)			SAMPLI			
PROJECT NO.:	01545.41.001		SERIAL #:	PROJE	UT	DATE:	8/24/10		
PH	CALIBRATION CHECK				IFIC CONDU	CTIVIT	CALIBRAT	TION CH	ECK
pH 7 (LOT #): 28 0583 (EXP. DATE): 10 20 KB POST-CAL READING / STANDARD	pH 4 / 10 (LOT #): OADOUC (EXP. DATE): 4/2012 POST-CAL READING/STANDARD	CAL: RANGE TIME	(EX	т#): С АО P: DATE): Y	POTO DESIGNO REAL PROPERTY AND PROPERTY AND			CAL. ANGE	TIME
7.09 /7.00 6.97 /7.00 /	3.90 1 4.00 4.01 1 4.00	WITHIN RANGE OGLO WITHIN RANGE 1310 WITHIN RANGE WITHIN RANGE	1	7442 394	1 1413 1 1413 1	18. Z1.		WITHIN RANGE (MITHIN RANGE) WITHIN RANGE WITHIN RANGE	%43 314
	P CALIBRATION CHECK		<u> </u>				ON CHECK		
CAL: READING (LOT#): 095160661 (EXP. DATE): 10/2011 POST-CAL: READING/STANDARD	(*CELSIUS)	CAL. TIME		CA	LIBRATION RI	EADING		CAL. ANGE	TIME
243 1743	17.50 72.00	WITHIN RANGE 13(5) WITHIN RANGE WITHIN RANGE			9.7 <i>5</i> 9.05	-		WITHIN RANGE / WITHIN RANGE / WITHIN RANGE	317 317
	DITY OAL IDDATION OUT	RANGE]			COMM	FNITO	RANGE	
	DITY CALIBRATION CHECON READING (NTU)* (LOT#): (EXP. DATE):	CAL. TIME		AUTOCAL T.#); P. DATE);	SOLUTION	LIST LOT	TANDARD SOI NUMBERS AND NDER CALIBRA	EXPIRATIO	N DATE
POST-CAL READING / STANDARD		A STANDARD OF THE STANDARD OF		CALIBRATED	PARAMETERS		CALIBRATION I	RANGES ⁽¹⁾	
75/500 75/80	185/20 10.2/20,	WITHIN RANGE		рн со:	ND	pH: COND:	+/- 0.2 S.U. +/- 1% OF CA	AL. STANDA	ARD
/	/	WITHIN		∐ ORI	P	ORP:	+/- 25 mV		
/		WITHIN RANGE]	∐ D.O) .	D.O.:	VARIES		
	NOTES				RB		+/- 5% OF C/ RATION RANGE DEL OF THE WAT	S ARE SPEC	CIFIC TO
	PROBLEMS ENCOUNTERED				CORRECTI	IVE ACTIO	VS		
		,						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
10000		/				<u></u>			

WATER QUALITY METER CALIBRATION LOG

/	WAILING	OALII IVILI	LI OAL	יוו איוטוי.	JN LOG				
PROJECT NAME:	LE Carpenter		MODEL: (EDMPZ	ウ	SAMPLE	R:	SP	-
PROJECT NO.:	01545.41.001		SERIAL #:	PROJEC [*]	Γ	DATE:	8/2	5/16	
PH (CALIBRATION CHECK			SPECIF	FIC CONDU	ICTIVITY	'CALIBF	RATION C	HECK
pH 7 (LOT #): 78/0583 (EXP. DATE): 10/2010 POST-CAL READING / STANDARD	PH 4/10 (LOT#): OADOYO (EXP. DATE): Y/ZO/Z POST-CAL READING/STANDARD	CAL: RANGE TIME	(63) F	CAL READIT#): OA DO	24 2011 G/STANDARD	(°CE	RATURE	CAL. RANGE	TIME
6.20 / 7.00	4.03 1 4.00	WITHIN PANGE 0730	-1 1 *	412 1		18	7.96	WITHIN RANGE	1000
1,00 / 7.00	4.03 1 4.00	WITHIN /3/9	'	1470 1	1413	70	.56	RANGE WITHIN	1320
	1	RANGE WITHIN	-	/				RANGE WITHIN	
OPP.	CALIBRATION CHECK	RANGE	<u> </u>	/	D.O. CAL	IDDATIC	N CHEC	RANGE	<u> </u>
CAL READING	TEMPERATURE			CAL	D.O. CAL BRATION R	CONTRACTOR WAS A CHARGE	ON CHEC	in L	
(LOT#): OTS 100601 (EXP. DATE): 10 /ZOLL POST-CAL READING/STANDARD	(*CELSIUS)	CAL. TIME			(mg/L)			CAL. RANGE	TIME
240/240	18.90	WITHIN RANGE 0759	1		9.38			WITHIN RANGE	0736
232 1 232	00.55	☐ WITHIN /3	}		()			WITHIN RANGE	
' , /	ı	WITHIN RANGE						☐ WITHIN RANGE	
<u>'</u>		WITHIN RANGE	1 '					WITHIN RANGE	
	ITY CALIBRATION CHEC	K				COMME	ENTS		
CALIBRATION (LOT #): (EXP. DATE): POST-CAL READING / STANDARD	READING (NTU) (LOT#): (EXP. DATE): POST-CAL READING / STANDARD	CAL. RANGE TIME	(EX	AUTOCAL S OT #): (P. DATE): CALIBRATED PA		LIST LOT 1	NUMBERS A NDER CALIB	SOLUTION (ND EXPIRATI RATION CHE ON RANGES (ION DATES
770/800 76/80	185/201 0.21/76	WITHIN OF S	1	рН		pH:	+/- 0.2 S.L	J.	90.0 - 10.0
. /	1	WITHIN	1	CONE)	COND:	+/- 1% OF	CAL. STAN	DARD
1	1	WITHIN RANGE	1	ORP		ORP:	+/- 25 mV		
1	1	WITHIN RANGE	1	D.O.		D.O.:	VARIES		
	NOTES		_	TURB		TURB:	+/- 5% OF	CAL. STAN	DARD
								GES ARE SP VATER QUAL	
			A NESSO SEL PROPERTIES A PROP						
P	ROBLEMS ENCOUNTERED				CORRECT	VE ACTION	S 100 100 100 100 100 100 100 100 100 10		
1.1	7	<u> </u>	<u> </u>						
K Van let	, 8/25	10		do) vemoc	, clo	a)	2/10	
SIGNED	<u> </u>	DATE		CHECKED		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	' 		DATE



WATER LEVEL DATA

PROJECT NAME:	LE Carpenter	 DATE: 8	1231	10
PROJECT NUMBER:	01545.41.001	AUTHOR:	Scott F	Pawlukiewicz

PROJECT NOWIBER.	01545.41.001	· · · · · · · · · · · · · · · · · · ·	AOTHC	M. SCOULFAWIUM	ilewicz
WELL LOCATION	ŢIME REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	PEPTH TO PRODUCT (FEET)	WATER ELEVATION
MW-19-8	11362	10.31			
MW-19-9D	1138	10440	1	2011000	
MW-19 12	1135	9.60	16.60		
GEI-3I	1148	14.22	پ		
MW-15S	100	11.66			
MW-15I	ink	11.55			
MW-185	1178	5,94			
MW-181	1129	8.84			
MW-17S 9	IISS	9.68			
MW-12R	1200	9.24			
MW-9	1704	4.62			
MW-8	1207	3.59	70.15		
MW-13S	1526	4.13			
MW-13I	1527	5.79	et .	٠	
MW-13S (R)	1530	5.63			
MW-25R	1228	2.65	8.81		
MW-21	1232	4.32			
MW-27S	m4	10.70	12.43		
MW-28S	1150	7.05	17.51		
MW-28I	1/51	6.94	72.71		
MW-29S	1210	8.63	14.60		•
MW-30S	1214	4.51	11.96		
MW-30I	[213]	4.25	17.98	1 4 A	*
ALL W	ATER LEVELS MUST INCLUDE	REFERENCE POI	NT AND TAPE CO	RRECTION FACTOR	· · · · · · · · · · · · · · · · · · ·

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

DATE



WATER LEVEL DATA

·	
PROJECT NAME: LE Carpenter	DATE: 8/23/10
PROJECT NUMBER: 01545.41.001	AUTHOR: Scott Pawlukiewicz

PROJECT NUMBER: 10	01545.41.001		AUTHOR: Scott	Pawiukiewicz
WELL LOCATION	TIME REFERENCE	WATER BO	PTH TO DEPTH OTTOM PRODU FEET) (FEET	ICT WATER
MW-30D	5151	4.19 1	M	
MW-31s	1639	6.50		
MW-32s	1641	759 -	-> 7.49	
MW-33s	1637	6.65		
MW-34s	1645	7.45		
MW-35s	1630	5.84		
SW-D-1	1520	2.14	·	
SW-D-2	1510	2.39		
SW-D-3	1500	1.91	·	
SW-D-4	14/00	*0.9 500	OFF GAUGE DE	
SW-D-5	1245	N/A STA	FF GAUGE DI	zy.
SW-R-1	1315	Z.69		
SW-R-2	1385	280		
SW-R-3	1335	1.85		
SW-R-4	1345	2-61		
SW-R-5	1(20	1.78		
SW-R-6	1430			
DRC-2	1238	2.16		
SG-R2	1413	2.91		
<i>F</i>				AND THE RESIDENCE OF THE PROPERTY OF THE PROPE

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

Paulitio 8/23/10

CHECKED

DAT

SIGNED



WATER LEVEL DATA

PROJECT NAME:	LE Carpenter	DATE: 8	126/10
PROJECT NUMBER:	01545.41.001	AUTHOR:	Scott Pawlukiewicz

				1,10,1,10		
WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
SW-D-1	0966		2.12			
SW-D-2	0908		2.40			
SW-D-3	0904		196			
SW-D-4	0810		0.91 0	0 / 1.40	new 1	
SW-D-5	0830		1,75 (Ne	o [1.40 2)		
SW-R-1						
SW-R-2						
SW-R-3						
SW-R-4						
SW-R-5						
SW-R-6						
DRC-2 SG-R2	0818		7.20			
			A SACRAMORA SALE SALES SACRAMORA SALES SAL		The state of the s	
			and the second	11)		
		L	L	l	L	

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

5. Taulet 8/26/10 SIGNED DATE

CHECKED DATE

PROJECT NAME: LE Carpenter PREPARED CHECKED	
PROJECT NUMBER: 01545.41.001 BY SP DATE BY: DATE:	9/2/10
SAMPLE ID: DEC - 02 WELL DIAMETER: 2" 4" 6" OTHER N/A	
WELL MATERIAL: PVC SS IRON GALVANIZED STEEL OTHER N/A	
SAMPLE TYPE: GW WW SW DI LEACHATE OTHER	
PURGING TIME: DATE: SAMPLE TIME: 1738 DATE: 8	23/10
PURGE PUMP PH: SU CONDUCTIVITY:	umhos/cm
BAILER ORF IIIV DO IIIIV/L	
DEPTH TO WATER: T/ PVC TURBIDITY: NTU DEPTH TO BOTTOM: T/ PVC NONE SLIGHT MODERATE	VERY
DEPTH TO BOTTOM: T/ PVC NONE SLIGHT MODERATE	
VOLUME REMOVED: LITERS GALLONS COLOR: ODOR:	
COLOR: ODOR: FILTRATE (0.45 um) YES V NO	
TURBIDITY FILTRATE COLOR: FILTRATE ODOR:	
NOME SLIGHT MODERATE VERY QC SAMPLE: MS/MSD DUP-	_
DISPOSAL METHOD: GROUND DRUM OTHER COMMENTS:	-
	IULATIVE
KAIE LEVEL FORG	E VOLUME AL OR L)
Name of the second seco	VITIAL
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIM	ITS:
pH: +/- COND.: +/- ORP: +/- D.O.: +/- TURB: +/- or = TEMP.</td <td></td>	
BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -	-
NUMBER SIZE TYPE PRESERVATIVE FILTERED NUMBER SIZE TYPE PRESERVATIVE F	FILTERED
2 40 mL VOA E	Y N
2 1L AMBER F Y V N	Y N
	Y
	Y N
	Y N
SHIPPING METHOD: PENEX DATE SHIPPED: 8/24/10 AIRBILL NUMBER: 86/99 ST	of 7-00
	6 COSS
COC NUMBER: DA SIGNATURE: 5 Party DATE SIGNED: 0 TOU	/6

PROJECT NAME: LE Carpenter	PREPARED CHECKED											
PROJECT NUMBER: 01545.41.001 BY	SP DATE: 8/23/10 BY: A) DATE: 9/2/10											
SAMPLE ID: 50-0-5 WELL DIAMETER	R: 🗸 2" 🔲 4" 🗍 6" 🗸 OTHER N/A											
	IZED STEEL OTHER N/A											
SAMPLE TYPE: GW WW SW DI	LEACHATE OTHER											
PURGING TIME: DATE:	SAMPLE TIME: 1745 DATE:8/23/10											
L METHOD	PH: SU CONDUCTIVITY: umhos/cm DRP: mV DO: mg/L											
	TURBIDITY: NTU											
DEPTH TO BOTTOM: T/ PVC	NONE SLIGHT MODERATE VERY											
WELL VOLUME:LITERS GALLONS TI	EMPERATURE:°C ØTHER:											
VOLUME REMOVED: LITERS GALLONS C	ODOR:											
COLOR: ODOR: FI	ILTRATE (0.45 um) YES V NO											
TURBIDITY	ILTRATE COLOR: FILTRATE ODOR:											
NOME SLIGHT MODERATE VERY	QC SAMPLE: MS/MSD DUP-											
ØISPOSAL METHOD GROUND DRUM OTHER	COMMENTS:											
TIME PURGE RATE PH CONDUCTIVITY ORP D.O. TURBIDITY TEMPERATURE LEVEL PURGE VOLUME (ML/Min) (SU) (umhos/cm) (mV) (mg/L) (NTU) (°C) (FEET) (GAL OR L) INITIAL												
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCE	ESSIVE DEADINGS ADE WITHIN THE FOIL OWING LIMITS:											
	/- TURB: +/- or = TEMP.: +/-</td											
BOTTLES FILLED PRESERVATIVE CODES A - NONE B - H	INO3 C - H2SO4 D - NaOH E - HCL F											
NUMBER SIZE TYPE PRESERVATIVE FILTERED N	NUMBER SIZE TYPE PRESERVATIVE FILTERED											
2 40 mL VOA E Y N	□ Y □ N											
2 1 L AMBER F Y N	□ Y □ N											
□ Y □ N	□ Y □ N											
☐ Y ☐ N												
	YN											
SHIPPING METHOD: PED EX DATE SHIPPED: 8	1/24/10 AIRBILL NUMBER: 8619 9586 705											
COC NUMBER: NO SIGNATURE:	Parly DATE SIGNED: 8/24/10											
REVISED 03/2008	Town Street Street											

PROJECT NAME:	LE Ca	rpenter			PREF	ARED		UH.	ECKED		
PROJECT NUMBE	R: 01545	.41.001		BY	SP	DATE 8/23/	/D BY:	90	DAT	E:9/2/1	O
SAMPLE ID: 50	-R-1		WELL	DIAMET	ΓER: 🗸 2"	4" 6"	✓ отн	ER N/A			
WELL MATERIAL:	PVC	ss [] IRON [GALVA	ANIZED ST	EEL	✓ отн	ER N/A			
SAMPLE TYPE:	☐ GW	□ww ⊡	sw [] DI	LE	ACHATE	□ отн	ER			
PURGING	TIME:	[DATE:		SAN	APLE TI	ME: 1315	5	DATE: 5	8/28/10	
PURGE	PUMP			_/	PH:	SU	CONDUC	TIVITY:		umhos/	/cm
METHOD:	BAILER		/		ORP:	mV	DO:		mg/L	/	
DEPTH TO WATER:		T/ PVC			TURBIDIT	TY:	NTU	·			
DEPTH TO BOTTOM	l:	T/ PVC			☐ NONE	SLIGH	т 🗌	MODERATI	<u> </u>	VERY	
WELL VOLUME:	· · · · · · · · · · · · · · · · · · ·	LITERS	GALL	ONS	TEMPERA	TURE:	°c	ØTHER:			
VOLUME REMOVED):	LITERS	☐ GALL	ONS	COLOR:		-//	ODOR:			
COLOR:	<u> </u>	c	DOR:		FILTRATE	(0.45 um)	YES	☑ NO			
	TUR	BIDITY			FILTRATE	COLØR:		FILTRATE (DDOR:		
□ NOME □ SL	IGHT 🗌	MODERATE	U VI	ERY	QC SAMP	LE: MS/M	SD	DUP-			
ØISPOSAL METHOD	: GROU	ND 🗌 DRUM	/ OTHE	R	COMMEN	ITS:					
TIME, PURGE	PH	CONDUCTIVIT	Y ORP		D.O. 1	URBIDITY T	EMPERATU	RE WATE		JMULATIVI	
RATE (ML/MIN)	(SU)	(umhos/cm)			mg/L)	(NTU)	(°C)	LEVE		RGE VOLUI GAL OR L)	
					111572-7E-F198	(0.10)	(9)	(- L	210 1100	INITIAL	
							/				
									_		
						READINGS ARI					
pH: +/-	COND.: +/-	ORI	o: +/-	D.O.:	+/-	TURB: +/-	or	=</td <td>TEMF</td> <td>P.: +/-</td> <td></td>	TEMF	P.: +/-	
BOTTLES FILLED	PRESERV	ATIVE CODES	A - NONE	В-	HNO3	C - H2SO4	D - NaOH	E -	HCL F		
NUMBER SIZE	TYPE	PRESERVA [*]	TIVE FILT	TERED	NUMBER	SIZE	TYPE	PRESERV	ATIVE	FILTERE	:D
2 40 mL	VOA	E		✓ N						_ Y	N
2 1 L	AMBER	F		✓ N						Y	N
			Y	□ N						_ Y	N
			□Y	□N						□ Y □	N
			Y	□ N						_ Y _	N
SHIPPING METHOD:	PEOE	<u> </u>	DATE SHIPF	PED:	8/21/	0	AIRBILL N	NUMBER:	8619	9586	<u>—</u>
COC NUMBER:	NA		SIGNATURE		Poul	Jan 1	DATE SIG	SNED:	8hu	10	=
REVISED 03/2008	107				, , , , , ,	7			-101	110	

PROJECT	NAME:	LE Ca	rpenter				PREI	PARED		CH	ECKED
PROJECT	NUMBEF	R: 01545	.41.001			3 Y	SP	DATE: 8/	3/10 BY:	20	DATE: 9/2/10
SAMPLE III WELL MATE SAMPLE TY	RIAL:	- Z -Z □ PVC □ GW	SS	☐ IRC	N 🔲		TER: 2" ANIZED ST	4"	6" \(\sqrt{OTH}	HER N/A	
PURG	EUROS SEGUEN	TIME:		DATE:				MPLE A	TIME: /3		DATE: 8/23/10
PURGE METHOD:		PUMP BAILER				/	PH:	S m	U CONDU	CTIVITY:	1 0/00/10
DEPTH TO	WATER:		T/ PVC	$\overline{}$			TURBIDI	ΓΥ:	NTU	4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
DEPTH TO	воттом		T/ PVC				☐ NONE	SLI	GHT 🗌	MODERAT	É UERY
WELL VOLU	JME:		LITERS		GALLO	NS.	TEMPER/	ATURE:	°C	OTHER:	
VOLUME R	EMOVED:	$-\!\!\!\!/$	LITERS		GALLO	NS	COLOR:		/	ODOR:	
COLOR:				ODOR:			FILTRATE	(0.45 um)	YES	✓ NO	
		TURI	BIDITY				FILTRATE	COLØR:		FILTRATE	ODOR:
NOME	SLI	GHT 🗌	MODERATI	E	VER	Υ	QC SAM	LE: 🗌 MS	/MSD	DUP-	
DISPOSAL	METHOD:	GROU	ND DR	UM 🗌	OTHER		COMMEN	ITS:			
I IIVIE	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIN		ORP (mV)		D,O. 1	TURBIDITY	TEMPERATU (°C)	JRE WATE LEVE (FEE	EL PURGE VOLUME
					/						
pH: +/-		COND.: +/-		RP: +/-	WHEN	3 SUC D.O.:		TURB: +/-		THE FOLLO	WING LIMITS: TEMP.: +/-
BOTTLES	FILLED	PRESERV	ATIVE COD	<u>ES</u> A-	NONE	В-	HNO3	C - H2SO4	D - NaOl	1 E-	HCL F
NUMBER	SIZE	TYPE	PRESERV	ATIVE	FILTE	RED	NUMBER	SIZE	TYPE	PRESERV	ATIVE FILTERED
2	40 mL	VOA	E		Y [✓ N			· · · · · · · · · · · · · · · · · · ·		□ Y □ N
2	1 L	AMBER	F		□ Y [✓ N			7-113-20		□ Y □ N
					□ Y [N					□ Y □ N
					□ Y [N					Y N
					□ Y [N					□ Y □ N
SHIPPING N	METHOD:	FEDEX		DATE	SHIPPE	D:	8/24/1	t	AIRBILL	NUMBER:	8619 9586 2053
сос иимві	ER:	MA		SIGNA	TURE:	3	Paul	15 L	DATE SIG	GNED:	8/24/10
REVISED 0:	3/2008			·				()			

PROJECT	NAME:	LE Ca	rpenter					PREF	ARED		CH	HECKED		
PROJECT	NUMBER	: 015 4 5.	41.001			B,	Y	SP	DATE: 8/	23/10 BY:	do	DAT	E: 9/2	10
SAMPLE I WELL MAT SAMPLE T	ERIAL:	-12-3 pvc gw	☐ss ☐ww	☐ IRC	DN		ALVA	TER: 🗸 2" ANIZED STE		 ✓ от	HER N/A HER N/A			
PURC	SING	TIME:		DATE				SAN	SAMPLE TIME: /335 DATE: 8/23					
PURGE METHOD		PUMP BAILER							S	U CONDU	JCTIVITY: _	mg/L	/ /	08/cm
DEPTH TO	WATER:		T/ PVC	\angle				TURBIDIT	Y:					
DEPTH TO	воттом		T/ PVC					NONE	SLI	GHT _	MODERA	fE [VER	Y
WELL VOL			LITERS			LON		 	TURE:	°C	OTHER:			
	REMOVED:	$-\!\!\!\!/-$	LITERS			LON	S	COLOR:		_/_	ODOR:			
COLOR:				ODOR					(0.45 um)	∐ YES	✓ NO			
NOME			BIDITY	=	,	VERY	,	CC SAMP		/MSD	FILTRATE DUP-			
DISPOSAL			MODERATI		OTH			COMMEN		/IVIOU				
DIOI OUAL	PURGE				011			JONNIVIEN	110.	I & D & THE BOOK OF BUILDING	L wat		JMULAT	5/07-11-11
TIME	RATE (ML/MIN)	PH (SU)	CONDUCTIV		OR (m)			D:O. T	URBIDITY (NTU)	TEMPERAT	URE LEV	/EL PUF	RGE VOL GAL ØR INITIA	LUME LL)
					_									
										,				
NO.	TE OTABU	IZATION T	FOT 10 001	DI ETE			2112	05000/5	SEADINGS.	NE MARTINIA	THE FOLL	0.441.0		
pH: +/-		COND.: +/-		RP: +/-			D.O.:		TURB: +/-	or	=</td <td></td> <td>P.: +/-</td> <td></td>		P.: +/-	
BOTTLES			ATIVE COD		_			HNO3	C - H2SO4			- HCL F		
NUMBER	SIZE	TYPE	PRESERV	ATIVE	FI	LTER		NUMBER	SIZE	TYPE	PRESER	VATIVE	FILTE	RED
2	40 mL	VOA	Е			Y	N						Y [N
2	1 L	AMBER	F			Y	N						_ Y	N
						Υ [N						_ Y [N
						Υ [N						_ Y [N
						Υ [] N	<u> </u>				[_ Y	N
SHIPPING	METHOD:	FROF	<	DATE	SHIF	PPED	:	Starle	0	AIRBILL	NUMBER:	8619,9	1886	2053
COC NUME	BER:	NA		SIGNA	ATUF	RE:	4	Stark	uti	DATE S	IGNED:	8/0	alio	
REVISED	03/2008	· · · · · · · · · · · · · · · · · · ·							7					

PROJECT NAME:	LE Carpenter			PREP	ARED .		CH	ECKED			
PROJECT NUMBER:	01545.41.001		вү	SP	DATES /3	BY:	do	DATE: 9 2 10			
SAMPLE ID:	Rell	WELL	DIAMET	ER: 🗸 2"	4"	6"	IER N/A				
WELL MATERIAL:	PVC SS	☐ IRON ☐	GALVA	ANIZED STEEL OTHER N/A							
SAMPLE TYPE:] GW □ WW	✓ SW 🗌	DI	LEA	CHATE	IER					
PURGING T	IME:	DATE:		SAM	PLE	TIME: /34	15	DATE:8/23/10			
METHOD:	JMP			PH: SU CONDUCTIVITY: umhos/cr							
DEPTH TO WATER:	AILERT/ PVC		·	ORP: mV DO: mg/L TURBIDITY: NTU							
DEPTH TO BOTTOM:		/		NONE			MODERATI	☐ VERY			
WELL VOLUME:	LITER	GALLO	ONS	TEMPERA	TURE:	°C	OTHER:				
VOLUME REMOVED:	LITERS	GALLO	ONS	COLOR: ODOR:							
COLOR:		ODOR:		FILTRATE	(0.45 um)	YES	✓ NO				
	TURBIDITY			FILTRATE (COLØR:		FILTRATE (DDOR:			
□ NOME □ SLIGH	HT MODERAT	E UE	RY	QC SAMP	(E: 🗌 MS/	MSD	DUP-				
ØSPOSAL METHOD:	GROUND DF	RUM 🗌 OTHER	₹	COMMEN.	TS:						
TIME PURGE RATE (ML/MIN)	PH CONDUCTI			D.O. Ti mg/L)	URBIDITY (NTU)	TEMPERATU	JRE WATE LEVE (FEE	L PURGE VOLUME			
	ACT VIOLENCE ATTENDED AND ADMINISTRATION OF THE PROPERTY OF TH		•				DAMA NAMES AND D	INITIAL			
				:							
	ATION TEST IS CO										
pH: +/- CO	OND.: +/- (DRP: +/-	D.O.:	+/-	TURB: +/-	or	=</td <td>TEMP.: +/-</td>	TEMP.: +/-			
BOTTLES FILLED PI	RESERVATIVE COL	DES A - NONE	В-	HNO3	C - H2SO4	D - NaOl	1 E-	HCL /F			
NUMBER SIZE	TYPE PRESER	VATIVE FILT	ERED	NUMBER	SIZE	TYPE	PRESERV	ATIVE FILTERED			
2 40 mL	VOA E	_ Y	V					□ Y □ N			
2 1 L /	AMBER F	Y	✓ N					□ Y □ N			
			N					YN			
		□ Y	□ N					□ Y □ N			
		□ Y	□N					□ Y □ N			
SHIPPING METHOD:	FOFX	DATE SHIPP	ED:	8/24/	10	AIRBILL	NUMBER:	619 9586 205			
COC NUMBER:	MA	SIGNATURE:	1	Pul	Wi.	DATE SI		8/24/10			
REVISED 03/2008		1			7						

PROJECT	NAME:	LE Ca	rpenter				PREF	ARED	•		C	HECKE	D .	
PROJECT	NUMBER	l: 015 4 5	.41.001		B'	Y	SP	DATE:8	23/1	b BY:	do	DA	TE:9/2/1	D
SAMPLE I WELL MATE	ERIAL:	_ D - <i>U</i> { ☐ PVC ☐ GW	☐ss ☐ww	☐ IRC	DN G	ALVA	TER: 2" ANIZED STE	4"] 6"	✓ ОТН ✓ ОТН	ER N/A			
PURC		TIME:		DATE:				MPLE:	ТІМ	E: / <i>U/0</i>		DATE	8/23/10	
PURGE		PUMP			'	$\overline{}$	PH:	CT RENEADAN			CTIVITY: _	0, 1,12	umhos/c	_
METHOD		BAILER			_/		ORP:			00:		mg/L		
DEPTH TO	WATER:		T/ PVC					Y:		NTU				
DEPTH TO	воттом:		T/ PVC				NONE	SL	.IGHT		MODERA	TE .	VERY	
WELL VOL	UME:		LITERS		GALLON	s	TEMPERA	TURE:		°℃	OTHER:			_
VOLUME F	REMOVED:	$-\!\!\!\!/-$	LITERS		GALLON	s	COLOR:				ODOR:			_
COLOR:	_			ODOR			FILTRATE	(0.45 um)	<u> </u>	YES	✓ NO			
NOME	│ SLI		BIDITY MODERATE	_	☐ VERY	,	GC SAMP		S/MSE		FILT RATI			_
DISPOSAL			ND DRI		OTHER	<u> </u>	COMMEN		5/IVISL	, (DOP.	0	-)	
	PURGE				31 314 IN						1 10/0	TER I	CUMULATIVE	
TIME	RATE (ML/MIN)	PH (SU)	CONDUCTIV		ORP (mV)		D.O. T	URBIDITY (NTU)	TEI	MPERATU (°C)	KE LE		JRGE VOLUM (GAL OR L)	/E
													INITIAL	
						-								

									-					
NOT	TE: STABIL	IZATION T	EST IS CON	IPLETE	WHEN 3	SUC	CESSIVE F	READINGS	ARE	WITHIN .	THE FOLL	OWING	LIMITS:	_
pH: +/-	(OND.: +/-	Ol	RP: +/-	I	D.O.:	: +/-	TURB: +/-	-	or	=</td <td>TEI</td> <td>MP.: +/-</td> <td></td>	TEI	MP.: +/-	
BOTTLES	FILLED	PRESERV	ATIVE COD	ES A-	NONE	В-	HNO3	C - H2SO	4 [O - NaOl	l E	- HCL	F	_
NUMBER	SIZE	TYPE	PRESERV	ATIVE	FILTER	RED	NUMBER	SIZE	7	TYPE	PRESER	VATIVE	FILTERE	2
431	40 mL	VOA	E		Y	<u> </u>							□ Y □ I	N
42	1 L	AMBER	F		□ Y ⊡	N							Y	N
					□ Y [N							Y	N
					Y	N							Y	N
	<u> </u>				Y	N	<u> </u>					,	Y	N
SHIPPING	METHOD:	FEDE	×	DATE	SHIPPED):	8/24/	16	/	AIRBILL I	NUMBER:	8619	9586 7	0\$3
COC NUME	BER:	MA		SIGNA	ATURE:	3	Yout	h's		DATE SIG	SNED:	8/	21/10	
REVISED (03/2008							71						_

PROJECT NAME: LE Carpenter		PREF	ARED		CHE	
PROJECT NUMBER: 01545.41.001	ВҮ	SP	DATE:8/2	3/10 BY:	20	DATE: 9 2 10
SAMPLE ID: 5W-R-6 WELL D	IAMET	ER: 🗸 2"		, "	IER N/A	•
WELL MATERIAL: PVC SS IRON C		NIZED ST			IER N/A	
SAMPLE TYPE: GW WW SW [DI	LE	ACHATE	□ отн		
PURGING TIME: DATE:		SAN	APLE 1	TME: 143	20	DATE:8/23/10
PURGE PUMP		PH:	SU	CONDUC	CTIVITY:	umhos/cm
METHOD: BAILER		ORP:	mV	DO:		mg/L
DEPTH TO WATER: T/ PVC		TURBIDIT	ΓY:	NTU		
DEPTH TO BOTTOM: T/ PVC		NONE	SLIG	нт 🗌	MODERATE	☐ VERY
WELL VOLUME:LITERS GALLON	18	TEMPERA	ATURE:	°℃	ØTHER:	
VOLUME REMOVED: LITERS GALLON	NS	COLOR:		_/	ODOR:	
COLOR: ODOR:		FILTRATE	(0.45 um)	YES	✓ NO	
TURBIDITY		FILTRATE	COLØR:		FILTRATE C	DOR:
□ NOME □ SLIGHT □ MODERATE □ VER	ίΥ		LE: MS/N	ISD	DUP-	
DISPOSAL METHOD: GROUND DRUM OTHER		COMMEN	ITS:			
TIME: PH CONDUCTIVITY ORP	104	D.O. 1	TURBIDITY	TEMPERATU	RE WATE	
RATE CONDUCTIVITY ORP		mg/L)		(°C)	LEVEI (FEET	
The state of the s	3000 00 00 00 00 00 00 00 00 00 00 00 00	ouse. Vicini suomi someon		200	Control of the Contro	INITIAL
				/		
	_					
	<u>ار</u>					
	1					
NOTE: STABILIZATION TEST IS COMPLETE WHEN :	3 SUC	CESSIVE F	DEADINGS AS	C WITHIN .	THE EOUL ON	MINIC LIMITS:
pH: +/- COND.: +/- ORP: +/-	D.O.:		TURB: +/-		=</td <td>TEMP.: +/-</td>	TEMP.: +/-
BOTTLES FILLED PRESERVATIVE CODES A - NONE		HNO3	C - H2SO4	D - NaOl		
NUMBER SIZE TYPE PRESERVATIVE FILTER		NUMBER				HCL F
		INUIVIDER	SIZE	TYPE	PRESERVA	
	✓ N					L Y L N
	✓ N					Y L N
	N					L Y L N
Y	_ N					
	N	<u> </u>				Y N
SHIPPING METHOD: FEDEX DATE SHIPPE	D:	8/24	10	AIRBILL I	NUMBER: 8	6199586 705
COC NUMBER: NA SIGNATURE:	4) Pau	lihi	DATE SIG		8/24/10
REVISED 03/2008			0		··············	

PROJECT NA	AME:	LE Car	penter				PRE	PARED		C	HECKE	D	
PROJECT NI	UMBER	: 01545.	41.001			вү	SP	DATE:	3/10 BY:	40	DA	TE:9\2	2/10
SAMPLE ID:	5W	-D-3			WELL I	DIAMET	ER: 🗸 2	2"	6" 🔽 ОТІ	HER N/A			
WELL MATER	IAL: [PVC	Ss	IRC	N 🗌	GALVA	NIZED S	TEEL	✓ оті	HER N/A			
SAMPLE TYPE	E: [_ GW	□ww	☑ sv	/	DI		EACHATE	отг	HER			
PURGIN	(G	TIME:		DATE:			SA	MPLE	TIME: 150) <i>O</i>	DATE	8/2	3/10
PURGE		PUMP					PH: _	s	U CONDU	CTIVITY: _		uml	no8/cm
METHOD:		BAILER			\angle		ORP: _	m	IV DO:		_ mg/L		
DEPTH TO W			T/ PVC	\angle			ł	OITY:			_/		
DEPTH TO BO	OTTOM:		T/ PVC				☐ NON		IGHT 🗌	MODERA	TE	VEI	₹Y
WELL VOLUM			LITERS		GALLC			RATURE:	°C	OTHER:			
VOLUME REM	MOVED:	/	LITERS		GALLC	ONS	COLOR			ODOR:			
COLOR:	$-\!\!\!\!/$	-		ODOR:				E (0.45 um)	YES	✓ NO		***	
			BIDITY	-		DV		E COLØR:	MACD	FILTRATI			
NOME DISPOSAL MI	SLIC		MODERATE		OTHEI		QC SAN		NINION	DUP			
		GROUN		JIVI []	UTHE		COIVIIVIE	EIN I O.	size N. Carlott de C.	Section by Page			
	URGE RATE	PH	CONDUCTIV	пу	ORP		D.O.	TURBIDITY	TEMPERAT			CUMULA JRGE VO	
- (N	AL/MIN)	(SU)	(umhos/cn	1)	(mV)	(mg/L)	(NTU)	(°C)	(FE	ET)	(GAL O	
												INITH	**
	,												İ
				_									
									<u> </u>				
					WHEN			READINGS					
pH: +/-		OND.: +/-	O	RP: +/-		D.O.:	+/-	TURB: +/-	or	=</td <td>I E</td> <td>MP.: +/-</td> <td></td>	I E	MP.: +/-	
BOTTLES F	ILLED	PRESERV	ATIVE COD	ES A-	NONE	В-	HNO3	C - H2SO4	D - NaC	H E	E - HCL	F	
NUMBER	SIZE	TYPE	PRESERV	ATIVE	FILT	ERED	NUMBE	R SIZE	TYPE	PRESE	RVATIVE	FILTI	ERED
2 4	40 mL	VOA	E		_ Y	✓ N						□ Y	□ N
2	1 L	AMBER	F		□ Y	✓ N						Y	N
					□ Y	□ N						□ Y	□ N
					□ Y	□N						□ Y	□N
					Y	□ N						□ Y	□ N
SHIPPING ME	ETHOD:	F€o€	-K	DATE	SHIPP	ED:	8/0	1/10	AIRBILL	. NUMBER:	8619	,958	6 705
COC NUMBER	R:	MA		SIGNA	ATURE	Z	Par	elit,	DATE S	IGNED:	8/	24/1	<i>b</i>
REVISED 03/	/2008			L		<u> </u>		0	-				

PROJECT N	IAME:	LE Car	penter			PREP	ARED .		CHI	ECKED		
PROJECT N	IUMBER:	01545.4	41.001		BY	SP	DATE:	S/10 BY:	40	DAT	E: 9)	210
SAMPLE ID	د. کرک :	- D-2		. WE	LL DIAME	ΓER: 🗸 2"	4"	6"	ER N/A			
WELL MATER	-	PVC	□ss [IRON	GALV	ANIZED STE	EL	✓ OTH	ER N/A			
SAMPLE TYP	PE: [] GW	□ww	✓ sw	☐ DI	LEA	CHATE	ОТН	ER			
PURGI	NG	TIME:		DATE:		SAN	PLE	TIME: /5/	0	DATE:	8/23	סו
PURGE METHOD:		PUMP			_/	PH:	SI		TIVITY:		_ umb	108/cm
DEPTH TO V		BAILER	T/ PVC	$\overline{}$	<u></u>	ORP:				mg/L	_	
DEPTH TO E			T/ PVC			NONE			MODERATI	= [VEF	₹Y
WELL VOLUM			LITERS	☐ GA	ALLONS	TEMPERA	TURE:	°C	ØTHER:			
VOLUME RE			LITERS		ALLONS	COLOR:			ODOR:			
COLOR:		/		ODOR: _		FILTRATE	(0.45 um)	YES	√ NO			
	7	TURE	BIDITY			FILTRATE	COLOR:		FILTRATE (ODOR:		-
NOME	SLIC		MODERATE		VERY	QC SAMP	E: MS/	MSD)	DUP-			
ØISPOSAL N	METHOD:	GROUN	ND 🗌 DRU	TO ML	THER	COMMEN	TS:					
TIME	PURGE RATE ML/MIN)	PH (SU)	CONDUCTIV		nRP πV)	D.O. T (mg/L)	URBIDITY:	TEMPERATU	RE LEVE	EL PUI	UMULA RGE VC (GAL OI	DLUME
											INITH	4
		`										
							,					
											····	
					ı							
NOTE	E: STABIL	IZATION T	EST IS CON	IPLETE W	HEN 3 SU	CCESSIVE F	READINGS A	RE WITHIN	THE FOLLO	WING L	IMITS:	
pH: +/-	C	COND.: +/-	0	RP: +/-	D.O.	.: +/-	TURB: +/-	or	=</td <td>TEM</td> <td>1P.: +/-</td> <td></td>	TEM	1P.: +/-	
BOTTLES	FILLED	PRESERV	ATIVE COD	ES A-N	ONE B	- HNO3	C - H2SO4	D - NaOl	1 E-	HCL	F	
NUMBER	SIZE	TYPE	PRESERV	ATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESER\	/ATIVE	FILTI	ERED
42	40 mL	VOA	Е		YVN							N
4/2	1 L	AMBER	F		Y 🗸 N						Y	N
					Y 🗆 N						□ Y	□N
] Y 🔲 N						□ Y	□и
] Y 🔲 N	Δ.						Пи
SHIPPING M	METHOD:	FROE	×	DATE SH	HIPPED:	8/24	110	AIRBILL	NUMBER:	860	195	86 2
COC NUMBI	ER:	AU		SIGNATI	JRE:	5 Paul	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	DATE SI	GNED:	8/	74/ir	2
REVISED 03]		, , , ,	\overline{A}		*			

PROJECT	NAME:	LE Car	penter				PREF	ARED		CH	ECKED		
PROJECT	NUMBER	: 01545.	41.001			BY	SP	DATE:8/2	3/10 BY:	40	DATE	9/2/10	
SAMPLE I	ERIAL: [PVC	SS	☐ IRO	ON [GALVA	NIZED STE	4" []		ER N/A			
SAMPLE TY	rpe: [GW	☐ ww	☑ SV	v Ц	DI	LE/	,					
PURG	BING	TIME:		DATE	:		SAMPLE TIME: 1520 DATE:8/23						
PURGE METHOD	. =	PUMP BAILER						· SL m\			mg/L	umhos/cm	
DEPTH TO	WATER:		T/ PVC				TURBIDIT	Y:	_ NTU				
DEPTH TO	воттом:		T/ PVC				NONE	SLIC	HT	MODERAT	É	VERY	
WELL VOL	JME:		LITERS		GALLC	NS	TEMPERA	TURE:	°€ ∫	ØTHER:			
VOLUME F	REMOVED:		LITERS		GALLC	NS	COLOR:		_/	ODOR:			
COLOR:				ODOR	:		FILTRATE	(0.45 um)	YES	√ NO			
	/	TURE	BIDITY				FILTRATE	COLØR:		FILTRATE	ODOR:		
NOME	SLIC	ЭНТ	MODERAT	E	U VE	RY	QC SAMP	LE: MS/	MSD	DUP-		_	
DISPOSAL	METHOD:	GROU	ND DR	UM 🗌	OTHER	٦	COMMEN	TS:					
TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIV		ORP (mV)		D.O. T	URBIDITY (NTU)	TEMPERATI	JRE WAT LEV (FEE	EL PÙRÓ T) (G	MULATIVE GE VOLUME (AL OR L)	
												INITIAL	
NO ¹	TE: STABIL	IZATION T	EST IS CO	VIPLETI	E WHEN	1 3 SUC	CESSIVE I	READINGS A	RE WITHIN	THE FOLLO	WING LIN	NITS:	
pH: +/-	(COND.: +/-	C	RP: +/-	•	D.O.:	+/-	TURB: +/-	or	=</td <td>TEMP</td> <td>.: +/-</td>	TEMP	.: +/-	
BOTTLES	FILLED	-	ATIVE COD	ES A	T		r	C - H2SO4	D - NaO				
NUMBER	SIZE	TYPE	PRESER\	/ATIVE	FILT	ERED	NUMBER	SIZE	TYPE	PRESER	VATIVE	FILTERED	
2	40 mL	VOA	E		Y	✓ N						Y N	
2	1 L	AMBER	F		Y	✓ N						Y N	
	·					□ N] Y N	
					Y	□N						Ŋ □Ņ	
					Y	□ N	,] Y N	
SHIPPING	METHOD:	FED	<u> </u>	DATE	SHIPP	ED:	8/24/	10	AIRBILL	NUMBER: ;	869 98	586 705	
COC NUMI		M			ATURE:	_=	Paul	uli	DATE SI		8/20	1/10	
REVISED					5.12		, 04-30				<u>U</u>	<u> </u>	

PROJECT NAME: LE Ca	rpenter		PRE	PARED		CHEC	
PROJECT NUMBER: 01545	5.41.001	BY	SP	DATE: 8/	23/10 BY:	do	DATE: 9 2 10
SAMPLE ID: MW-35		WELL DIAM	METER: 2	"	6" 🗌 ОТН	ER	
WELL MATERIAL: PVC	ADMINISTRAÇÃO DE PRODUCTION DE LA PROPERTA DE LA PERTA DEL PERTA DEL PERTA DE LA PERTA DEL PERTA DE LA PERTA DEL PERTA DE LA PERTA DEL PERTA	IRON GA	LVANIZED S	TEEL	ОТН	ER	
SAMPLE TYPE: 📈 GW	ww	SW 🗌 DI		EACHATE	□ отн	ER	
PURGING TIME:/6	52 DA	TE:8/23/10	SA	MPLE	TIME: 8/2	5/10 0	ATE: 1030
PURGE PUMP METHOD:	PERSTRUTT	<u>e</u>					5 umhos/cm
DEPTH TO WATER: 5.84	T/ PVC			TY: SUO		0.72 mg	
DEPTH TO BOTTOM:						MODERATE	Sampling VERY
WELL VOLUME:	LITERS	GALLONS	TEMPER	ATURE: 18	<i>§.58</i> °c	OTHER:	
VOLUME REMOVED: 4	LITERS	GALLONS	COLOR:	E100	clr	ODOR: 4	kr
color: CIR.	OD	OR: YES	FILTRAT	E (0.45 um)	YES	✓ NO	
	BIDITY		FILTRATE		cle_	FILTRATE ODG	OR:
NONE SLIGHT	MODERATE	☐ VERY	QC SAM	PLE: MS	/MSD	DUP-	**************************************
DISPOSAL METHOD: GROU	IND DRUM	OTHER	СОММЕ	NTS: -			
TIME* PURGE PH RATE (ML/MIN) (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATU (°C)	RE WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL QR L)
1652 400 6.44	2501	-45	3.71	13.4	18.34	5.84	INITIAL
1657 L 6.53	1000	-86	0.25	155	18.92	8.25	2
1702 1 6.51	1006	-93	0.72		18.58		4
1703 DRY - SH	EN IN BU	CRT, TER	GAR 5	suples.			
			V				
8/25/10:1030-	SAMIL	٠ 🖈					
NOTE: STABILIZATION	TEST IS COMPLI	ETE WHEN 3 S	SUCCESSIVE	READINGS	ARE WITHIN 1	THE FOLLOWI	NG LIMITS:
pH: +/- 0.1 COND.: +/-	5 (<100 ORP:	+/- D	.O.: +/- 10 %	TURB: +/-	10 % or	= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
BOTTLES FILLED PRESERV	/ATIVE CODES	A - NONE	B - HNO3	C - H2SO4	D - NaOH	H E - HC	CL F
NUMBER SIZE TYPE	PRESERVATIV	VE FILTERE	D NUMBE	R SIZE	TYPE	PRESERVAT	IVE FILTERED
2 5 40 mL VOA	E	□ Y	N 1×	1 L	AMBER	Α	Y VN
2 40 mL VOA	А	□ Y	N 1	125 mL	PLASTIC	В	✓ Y. □ N
1 100 ml PLASTIC	F	_ Y _	N				□ Y □ N
1 250 mL	A	_ Y _	N q	16706		-	□ Y □ N
1 125 mL PLASTIC	С	_ Y _	N				Y N
SHIPPING METHOD: FED	DA DA	TE SHIPPED:	8/25/	lio	AIRBILL I	NUMBER: 86	19 9586 7064
COC NUMBER:		GNATURE:	SPan)	~; .	DATE SIG	GNED:	3/25/10
REVISED 03/2008				δ			1 - 4 10

PROJECT NAME: LE Carpenter		PREPARED)		CHECKE		
PROJECT NUMBER: 01545.41.001	BY	SP DATE:	8/23/10	BY:	DA.	TE: 9/2/10	
SAMPLE ID: MW-345 WELL	DIAMET	「ER: ☑ 2" ☐ 4"	6"	OTHER			
WELL MATERIAL: PVC SS IRON	GALVA	ANIZED STEEL		OTHER			
SAMPLE TYPE:	DI	LEACHAT	E	OTHER			
PURGING TIME: 16/4 DATE: 8/23	10	SAMPLE	TIME:	Varie		Upries	
PURGE ☐ PUMP ☐ FICISION (IC METHOD: ☐ BAILER	-	PH: <u>6-16</u> ORP: - 70	_ SU CC _ mV DO	NDUCTIVI		umhos/cm	
DEPTH TO WATER: 4.45 T/ PVC		TURBIDITY: 3Z					
DEPTH TO BOTTOM: T/ PVC		□ NONE □	SLIGHT	☐ MOD	ERATE	VERY	
WELL VOLUME: LITERS GALLO	NS	TEMPERATURE:	18:57	°С ОТН	ER:		
VOLUME REMOVED: Z. LITERS GALLO	NS	COLOR: C	2	ODO	R: YEN		
COLOR: CR/RIAK. PONCODOR: YES	<u> </u>	FILTRATE (0.45 u	ım) 🗌 YE	s 🗸	NO		
51.7 TURBIDITY		FILTRATE COLOR	dr.	FILT	RATE ODOR:	yes	
□ NONE □ SLIGHT □ MODERATE □ VE	RY	QC SAMPLE:	MS/MSD		DUP-		
DISPOSAL METHOD: GROUND DRUM OTHER	٦	COMMENTS:		no	recovery	to get c	الد
TIME PURGE PH CONDUCTIVITY ORP (ML/MIN) (SU) (umhos/cm) (mV)		D.O. TURBIDI		ERATURE (°C)	WATER C	CUMULATIVE RGE VOLUME (GAL OR L)	bottle
1614 400 6.18 760 -28	2	53 51, 2	18.	79	7.75	INITIAL	
1619 1 6.16 701 -70	1.0	00 37:4		57	10.35	7	
					PRY		
8/25/10 1100: 141 WAS (4)	4-1	. Ambon					
de la		(HPC)					
8(26(0 0850; (1) 125 m/ 1/2504	· J · 1	(E) 125 M	nc Hxc	23			
NOTE: STABILIZATION TEST IS COMPLETE WHEN	3 SUC	CESSIVE READIN	GS ARE WI	THIN THE F	OLLOWING L	.IMITS:	
pH: +/- 0.1 COND.: +/- 5 (<100 ORP: +/-	D.O.:	+/- 10 % TURB:	: +/- 10 %	or = '</td <td>10 TEM</td> <td>1P.: +/- 0.5°C</td> <td></td>	10 TEM	1P.: +/- 0.5°C	
BOTTLES FILLED PRESERVATIVE CODES A - NONE	В-	HNO3 C - H2	SO4 D-	NaOH	E - HCL	F	
NUMBER SIZE TYPE PRESERVATIVE FILTE	ERED	NUMBER SIZ	E TYI	PE PRE	SERVATIVĘ	FILTERED	
2 8 40 mL VOA E □ Y	☑ N	12 11	_ AME	ER	Α	□ Y ✓ N	
2 40 mL VOA A Y	✓ N	1 125 r	mL PLAS	STIC	В	✓ Y □ N	
1 100 ml PLASTIC F Y	IJN.					□ Y □ N	
250 mL 01333 A Y	✓ N	8 total				□ Y □ N	,
1 125 mL PLASTIC C Y	✓ N	101001	-			□Y □N	8614 95
SHIPPING METHOD: FEO EN DATE SHIPPE	ED:	8 8/25/10 AND	8/26/10 AIF	BILL NUME	BER: 8619 95		
COC NUMBER: MA SIGNATURE:	5	Parki		TE SIGNED			
REVISED 03/2008		***				7	

PROJECT NAME:	LE Ca	rpenter			PREP	ARED		CHEC	KED
PROJECT NUMBE	R: 01545	41.001		BY	SP	DATE:	23/10 BY:	40	DATE: 9/2/10
SAMPLE ID: //	W-33:	\$ 11.5	WELL	DIAMET	ER: 2"	4"	6" OTH	ER	
WELL MATERIAL:	PVC	Section 1. All years and the section 1. Company of the section 1. Comp	IRON [GALVA	NIZED STE	EL	□ отн	ER	
SAMPLE TYPE:	GW	ww	sw [] DI	LEA	ACHATE	□ отн	ER	
PURGING	TIME: (7	779 DA	TE:8/23	10		IPLE		5 DA	ATE: 8/25/10
PURGE / / METHOD:	PUMP	-		_ ·	PH: 6.			CTIVITY: <u>910</u>	
L.	BAILER				ORP:	<u>80 </u>		<u>9.16 </u>	/L
DEPTH TO WATER		T/ PVC			NONE		NTU	MODERATE	☐ VERY
WELL VOLUME:	IVI:	T/ PVC	GALLO	ONS		TURE: 18		OTHER:	
VOLUME REMOVE	n 7	LITERS	GALLO		COLOR:	cla			light
COLOR: C(2, 1			,		FILTRATE		YES	✓ NO	4,11,
35.	2	BIDITY	<u> </u>	<u> </u>		COLOR:		FILTRATE ODG	OR DE NO
□ NONE S		MODERATE	U VE	ERY	QC SAMP		/MSD	DUP-	
DISPOSAL METHO	D GROU	ND DRUM	ОТНЕ	R	COMMEN	TS: —		·	
TIME PURGE	PH	CONDUCTIVITY	ORP		D.O. Т	URBIDITY	TEMPERATU	RE WATER	CUMULATIVE
RATE (MUMIN		(umhos/cm)	(mV)		mg/L)	(NTU)	(°C)	LEVEL (FEET)	PURGE VOLUME (GAL OR L)
1729 400	6.74	1000	-5	5/1.	93 3	5.3	17.91	6.65	INITIAL
1784 1	6.36	910	-80	0	.16 3	0.9	18-66	9.48	Z
1735 1								Dey	
								8	
\$ 125/10	1175	! Ssm	nle	9	Torpl	Bottl	F5		
3 103/10	1103		/·C/		1 - 7,50	700710			
NOTE: STAE pH: +/- 0.1		EST IS COMPL 5 (<100 ORP:							NG LIMITS: TEMP.: +/- 0.5°C
1528-05-110-124-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	E alle								
BOTTLES FILLED		ATIVE CODES			- HNO3	C - H2SO4			CL F
NUMBER SIZE	TYPE	PRESERVATI		TERED	NUMBER	SIZE	TYPE	PRESERVATI	
2 /5 40 mL	VOA	E .	Y		120	1 L	AMBER	A	Y V N
2 40 mL	, VOA	A	Y	✓ N	1	125 mL	PLASTIC	В	VY N
1 100 ml	plastic	F	Y	✓ N	<u> </u>				UY UN
1 250 mL	-	A	Y						Y L N
1 125 mL	PLASTIC	С	Y	✓ N]				Y L N
SHIPPING METHOD	FEOE	, DA	TE SHIPF	PED: 8	125/10		AIRBILL I	NUMBER: 86	19 9586 2064
COC NUMBER:	NA	Sie	GNATURE	: 3	Paul	~·	DATE SIG	GNED:	8/25/10
REVISED 03/2008						$\overline{\Delta}$			

PROJECT NAME: LE Carpenter	PREPARED CHECKED
PROJECT NUMBER: 01545.41.001 BY	SP DATE:8/23/10 BY: DATE: 8/2/10
	ETER: 2" 4" 6" OTHER
SAMPLE TYPE: GW WW SW DI	LEACHATE OTHER
PURGING TIME: /745 DATE 8/05/10	SAMPLE TIME: /ZIO DATE: 8/25/10
PURGE PUMP Peg-STOCTIE METHOD: BAILER	PH: 8.46 SU CONDUCTIVITY: 900 umhos/cm ORP: -772 mV DO: 0.38 mg/L
DEPTH TO WATER: 650 T/ PVC	TURBIDITY: 71000 NTU Cla during sampling
DEPTH TO BOTTOM: T/ PVC	□ NONE □ SLIGHT □ MODERATE □ VERY
WELL VOLUME: LITERS GALLONS	TEMPERATURE: 18.80 °C OTHER:
VOLUME REMOVED: 4 LITERS GALLONS	COLOR: ODOR: STrong
COLOR: CIR, Orange Floriff ODOR: STROWG	FILTRATE (0.45 um) YES V NO
797 TURBIDITY	FILTRATE COLOR: LO
□ NONE SLIGHT □ MODERATE □ VERY	QC SAMPLE: MS/MSD DUP-
DISPOSAL METHOD: GROUND DRUM OTHER	COMMENTS:
TIME" PURGE PH CONDUCTIVITY ORP (ML/MIN) (SU) (umhos/cm) (mV)	D.O. TURBIDITY TEMPERATURE WATER CUMULATIVE PURGE VOLUME (mg/L) (NTU) (°C) (FEET) (GAL OF L)
1745 400 8.56 1073 -237	1.58 24.2 18.13 6.50 INITIAL
1750 / 7.40 959 -773	0.16 71.8 19.13 8.76 2
- Sheen in Bucket + TURB. St	
37002 170 BOLDEY 1 (SICS. S.	is ques.
8/25/10 1210: Sample, 9	Bostas Total.
NOTE: STADII IZATION TEST IS COMPLETE MALIEN 2 SI	ICCCCCNVC DCADINGS ADE MITUIN THE COLL CHINA ANTIC
pH: +/- 0.1 COND.: +/- 5 (<100 ORP: +/- D.C	DCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: D: +/- 10 % TURB: +/- 10 % or = 10 TEMP.: +/- 0.5°C</td
BOTTLES FILLED PRESERVATIVE CODES A - NONE	3 - HNO3 C - H2SO4 D - NaOH E - HCL F
NUMBER SIZE TYPE PRESERVATIVE FILTERED	NUMBER SIZE TYPE PRESERVATIVE FILTERED
250 40 mL VOA E Y V	1 1 2 1L AMBER A Y N
2 40 mL VOA A Y V	1 125 mL PLASTIC B VY N
1 100 ml PLASTIC F Y	I N
1 250 mL 31A68 A Y	
1 125 mL PLASTIC C Y	
SHIPPING METHOD: FEOEX DATE SHIPPED:	8/25/10 AIRBILL NUMBER: 8619, 9586 706
COC NUMBER: A SIGNATURE: 4	DITTE CIONED Charles

MA

COC NUMBER: REVISED 03/2008 SIGNATURE:

WATER SAMPLE LOG

PROJECT NAME: LE Carpenter	PREPA	RED		CHEC	KED
		ATES/23/	(O BY:		DATE: 9/2/10
PROJECT NUMBER: 01545.41.001	SY SP D	AIR / ZJ (B1.	40	3/12/10
SAMPLE ID: MW-365 WELL DI	IAMETER: 2"	4" 6"	OTHER		
WELL MATERIAL: PVC SS IRON G	GALVANIZED STEE	L	OTHER		
SAMPLE TYPE: 📝 GW 🗌 WW 🗌 SW 🔲 🛭	DI LEAC	HATE	OTHER		
PURGING TIME: 1804 DATE: \$ 231	(O SAME	PLE TI	ME: ()Arie	5 04	ATE Upries
PURGE PUMP Persinitie	PH: 6.3	37 su	CONDUCTI	vity: <u>974</u>	umhos/cm
METHOD: BAILER	ORP:1	<u>34</u> mv	DO: 0.5	<u>6</u> mg	/L
DEPTH TO WATER: 7. 51 T/ PVC	TURBIDITY	<u> </u>	NTU		_
DEPTH TO BOTTOM: T/ PVC	☐ NONE	SLIGH		DDERATE	VERY
WELL VOLUME: LITERS GALLON		URE: 197		THER:	
VOLUME REMOVED: 7 LITERS GALLON		cle			5troug
COLOR: CLE, BIK. PLOTIES ODORS/FOW	FILTRATE (NO	-
TURBIDITY	FILTRATE CO			LTRATE ODO	OR:
NONE SLIGHT MODERATE VER			2D _		
DISPOSAL METHOD: GROUND DRUM TOTHER	COMMENT	S.		NA ATER	CUMULATIVE
TIME PURGE PH CONDUCTIVITY ORP (ML/MIN) (SU) (umhos/cm) (mV)		RBIDITY :	TEMPERATURE (°C)	WATER LEVEL (FEET)	PURGE VOLUME (GAL OF L)
1804 400 6.52 1035 -133	1 2		18.67	7.51	INITIAL
1809 1 6.27 974 -134			9.73	DRY	Z
				0	
V PRODET IN PERGE &	JORGE				
estate mare & a.	Taka	/ / 1	0 01/00	17	5 ml plosme
8/25/10 1735: 8 BOTT	THES TO rai		l excep		26)
7/ / 0540 (1) 125			7	0,55. B	70)
8/20/10 0840: (1) 125,	no plastic	1 HOCK	5)		
NOTE: STABILIZATION TEST IS COMPLETE WHEN					
pH: +/- 0.1 COND.: +/- 5 (<100 ORP: +/-	D.O.: +/- 10 %	TURB: +/- 1	0 % or <	/= 10	TEMP.: +/- 0.5°C
BOTTLES FILLED PRESERVATIVE CODES A - NONE	B - HNO3	C - H2SO4	D - NaOH	E - H	
NUMBER SIZE TYPE PRESERVATIVE FILTI	ERED NUMBER	SIZE	TYPE	PRESERVA	
7 8 40 mL VOA E / 755 Y	☑ N 1 /2	1 L	AMBER	A /2	33 Y V N
2 40 mL VOA A / 85 🗌 Y	☑ N 1	125 mL	PLASTIC	В	VY N
	✓ N				□ Y □ N
1 250 mL GLASS A Y	✓ N				□ Y □ N
1 125 mL PLASTIC C/235 Y	✓ N				□ Y □ N
SHIPPING METHOD: FOR FIX DATE SHIPP	ED: 8/73/16	Aus 8/26	/n AIRBILL N	UMBER: 86	39 9886 2064 1

DATE SIGNED:

REVISED 03/2008

WATER SAMPLE LOG

PROJECT NAM	1E: LE Ca	rpenter		PREF	PARED		CHE	CKED
PROJECT NUM	/IBER: 01545	5.41.001	ВҮ	SP	DATE:8/8	73 (10 BY:	00	DATE: 9/2/10
SAMPLE ID:		1/ss □	WELL DIAMI	ETER:	4"] 6" □ OTH		
SAMPLE TYPE:	- □ , vo		SW DI		ACHATE	ОТН		
PURGING	TIME: (2	237 DA	TE:8/23/10	. CAN	VIPLE	TIME: 4/4	- C In	ATE:
PURGE	200 July 2000	Perisiply.	<u> </u>		7	TIME: UA	CTIVITY: 114	PATE: UARIES 4 umhos/cm
METHOD:	BAILER	<u> </u>		ORP:		NO CONDOC	0-11	g/L ' umnos/cm
DEPTH TO WAT	10.	T/ PVC			TY: 71000			y sampling)
DEPTH TO BOT	том: 12.43	_ T/ PVC				IGHT	MODERATE	VERY
WELL VOLUME:	1.18	LITERS	GALLONS	TEMPERA	ATURE: L	<i>5.98</i> °c	OTHER: _	
VOLUME REMO	VED: 2	LITERS	GALLONS	COLOR:	_Clr	<u></u>	ODOR: _	10
COLOR:	low	OD	OR: _ <i>\\O</i>	FILTRATE	(0.45 um)	YES	✓ NO	
/		BIDITY		FILTRATE			FILTRATE OD	OR: 100
NONE	SLIGHT	MODERATE	VERY	QC SAME		MSD	DUP-	
DISPOSAL MET	HOD: GROU	ND DRUM	OTHER	COMMEN	ITS A (K;	70 Coz	(CO ,	Fe: 0.5
TIME PUR RA (ML/I	TE PROPERTY	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. 1 (mg/L)	rurbidity (NTU)	TEMPERATU	JRE WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL ORT)
1832, 400	0 684	1182	-61	1.60 1	67	16.70	10.60	INITIAL
1837 1	6.81	1144	~43 C	7.54	1000	15.98		Z
Dry					orange			
8/24/10:1	630: (4)	COA'S C	21 I-61r	ER AMR	eas Fu	(ED (1)	HOPE PL	0876
8/23/05	15650:12	UOA = , C.	10 A) 125	THE place	c (Hosan)	(9) 12	5 m/ 0/08/1	ic (Lines)
	, and the second		/		(01/25 01/1	/ (LE) - EE	2 Ph prost	(1,003)
NOTE: ST	ABILIZATION 1	EST IS COMPLI	ETE WHEN 3 SU	CCESSIVE I	READINGS	ARF WITHIN	THE FOLLOW	MG LIMITS:
pH: +/- 0.1		5 (<100 ORP:).: +/- 10 %			= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
BOTTLES FILL	ED PRESERV	ATIVE CODES	A - NONE E	s - HNO3	C - H2SO4	D - NaOl	H E-H	CL F
NUMBER SIZ	ZE TYPE	PRESERVATIV	VE FILTERED	NUMBER	SIZE	TYPE	PRESERVAT	IVE FILTERED
28' 40	mL VOA	8/24 E /63	O Y V	1 2	1 L	AMBER	8/24 A 16	30 - Y V N
2 40 1	mL VOA	8/24 A 163	PO Y V	1 1	125 mL	PLASTIC	8/75 B 6	
1 100		8/24 F 65	30 U Y V	ı				□ Y □ N
1 250	mL JGLASS	-8/25 A 065	60 TY V	1				□ Y □ N
1 125	mL PLASTIC	8/25 C665	0 Y V	,				☐ Y ☐ N
				-1 1	-11			

SIGNATURE:

PROJECT NAME: LE Ca	rpenter			PREP	ARED		CHE	CKED	
PROJECT NUMBER: 01545	.41.001		3Y	SP	DATE: 8/2	Zylo BY:	10	DATE: 9/2/10	
SAMPLEID: MW-19-12	2	WELL DI	IAMET	ER: 🖊 2"	4"	6" OTH	ER		
WELL MATERIAL: PVC		IRON []	GALVA	NIZED STE	EL	□ отн	ER		
SAMPLE TYPE: GW	ww	SW 🗌 [Ol	LEA	CHATE	□ отн	ER		
PURGING TIME: O		TE: 8/24/	10	SAM		TIME:674		DATE:8/24/10	
PURGE PUMP METHOD: BAILER	BLADOER			PH: <u>6.</u> ORP: 1			5/74 m	umhos/cm	
DEPTH TO WATER: 9.44	T/ PVC				Y: 8,00	NTU	<u> </u>	19/1	
DEPTH TO BOTTOM: <u>16, 6 0</u>	T/ PVC			NONE			MODERATE	_ UERY	
WELL VOLUME: 4.64									
VOLUME REMOVED: LITERS GALLONS COLOR: ODOR:									
COLOR: CR	OD(OR: _ <i>\LO</i>		FILTRATE	(0.45 um)	YES	✓ NO		
	BIDITY			FILTRATE (COLOR:	clr_	FILTRATE OF	DOR: 100	
NONE SLIGHT	MODERATE	☐ VER	Y	QC SAMP	LE: MS	/MSD	DUP-		
DISPOSAL METHOD GROU	ND DRUM	OTHER		COMMEN	TS:AIK:		$Co_2:$ —	· Fe! —	
TIME PURGE PH RATE (ML/MIN) (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)		D.O. TI mg/L)	URBIDITY (NTU)	TEMPERATU	RE WATER LEVEL (FEET)	PURGE VOLUME	
0720 400 6.77	479	173	6.	06	14,5	18.99	9.44	INITIAL	
0725 1 6.82	420	163			٥٩٠.)	18.92	9.44		
0730 4 6.82	421	157	5.		0.60	18.90	9.44		
U735 6.82	421	153			. 81	18.90	9.44	6	
6.81	423	151			1,00	18.90	9.44	8	
8 F (0 V 6.8(-10-	1-1		(-		10110	(, -, 1		
				05000 (5.0					
ph: +/- 0.1 COND.: +/-	5 (<100 ORP:			+/- 10 %			= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C	
BOTTLES FILLED PRESERV	ATIVE CODES	A - NONE	В-	HNO3	C - H2SO4	D - NaOH	H E-H	ICL F	
NUMBER SIZE TYPE	PRESERVATIV	/E FILTE	RED	NUMBER	SIZE	TYPE	PRESERVA	TIVE FILTERED	
2 8 40 mL VOA	E	□ Y	✓ N	2	1 L	AMBER	А	Y V	
2 40 mt VOA		□ Y	✓ N	1	125 mL	PLASTIC	В	VY N	
1 100 ml PLASTIC		□ Y [IJN.					□Y □N	
1 250 mL GLASS	A	□ Y [✓ N					□Y □N	
1 125 mL PLASTIC	e		_ 					OY ON	
SHIPPING METHOD: FEDE	. DA	TE SHIPPE		1/24/10		AIRBILL	NUMBER: \$7	619 9886 2053	
			J. <u>0</u>					0 - 1	
REVISED 03/2008	SIC	SNATURE:	<u>၂</u>	Tark	$\overline{\lambda}$	DATE SIG	SINED.	8/24/10	

PROJECT	NAME:	LE Ca	penter			PR	EPARED		CHEC		
PROJECT	NUMBEF	R: 01545.	41.001		BY	SP	DATE:	24/10 BY:	40	DATE: 9/2/10	
SAMPLEI	D: M	w-29	c	WELL	DIAMET	ER: 🖊	,	,] 6" 🔲 ОТН			
WELL MAT		PVC	√ss [IRON	GALVA	NIZED	STEEL	ОТН	IER		
SAMPLE TY	/PE:	GW	ww [] sw [] DI		LEACHATE		IER		
PURG	ING	TIME:08	77	DATE: 8-2 4	1-10	9	AMPLE	TIME: O90		ATE: 8/24/10	
PURGE METHOD		PUMP BAILER	BLAODER	2	-	PH: ORP:		SU CONDUC	O. (C mg		
DEPTH TO	DEPTH TO WATER: 8.43 T/ PVC TURBIDITY: 9.8 NTU										
DEPTH TO	воттом	14.6	T/ PVC			NO	NE 🗌 SL	IGHT 🗌	MODERATE	☐ VERY	
WELL VOL	JME:	4.0	LITERS	GALL	ONS	TEMPE	ERATURE: <u>/</u>	8.57 °c	OTHER:		
VOLUME F	REMOVED:	16	LITERS	GALL	ONS	COLO	R: Clr		ODOR:	NO	
COLOR:	Clr			DDOR: M)	FILTR/	ATE (0.45 um)	YES	✓ NO		
	34.8	TURE	BIDITY			1	TE COLOR:		FILTRATE ODG	DR:	
NONE	SLI		MODERATE	☐ VE	RY			S/MSD	DUP-		
DISPOSAL	METHOD	GROU	ND DRU	м / ОТНЕ	R	COMM	MENTS:AIK	100 00	2:35	Fe: 720	
TIME	PURGE RATE	PH	CONDUCTIVI	TY ORP		D.O.	TURBIDITY	TEMPERATU	RE WATER	CUMULATIVE PURGE VOLUME	
	(ML/MIN)	(SU)	(umhos/cm)) (mV)		mg/L)	(NTU)	(°C)	(FEET)	(GAL OF L)	
0877	400	6.62	1074	-116	3.	18	34.3	19.48	8.43	INITIAL	
0532	1	6.62	1034	-137	· 0.	68	687	19.03	8.55	2	
0837	1	6.64	5401	-148	O,	40	40.2	18.80	8.55	4	
0842		6.65	1038	-151	0.	22	25.2	18.71	8.55	6	
0847		6.66	1034	-154	O.	18	18.5	18.65	8.55	8	
0852		6.67	1025	-155	5 0	.16	13.9	18.60	8.55	10	
0957		6.68	1017	-156	0	13	13.0	18.57	8.55	12	
Sopo		6.68	1010	-15	1 0	.12	10.3	18.57	8.55	14	
0907	V	6.69	1008	-156	0	212	9.8	18.57	8.55	16	
				4							
NOT	E: STABIL	IZATION T	EST IS COMI	PLETE WHE	N 3 SUC	CESSIV	E READINGS	ARE WITHIN	THE FOLLOWIN	NG LIMITS:	
pH: +/-	0.1	COND.: +/-	5 (<100 OR	P: +/-	D.O.:	+/- 10	% TURB: +/-	10 % or	= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C	
BOTTLES	FILLED	PRESERV	ATIVE CODE	S A - NONE	В-	HNO3	C - H2SO	4 D - NaOh	H E-HC	L F	
NUMBER	SIZE	TYPE	PRESERVA	TIVE FILT	ERED	NUMB	ER SIZE	TYPE	PRESERVATI	VE FILTERED	
28	40 mL	VOA	E	Y	✓ N	2	1 L	AMBER	Α	YVN	
2	40 mL	VOA	Α	□ Y	✓ N	1	125 mL	PLASTIC	В	VY N	
1	100 ml	PLASTIC	F	Y	✓ N					□ Y □ N	
1	250 mL	PGLASS	Α	Y	✓ N					□ Y □ N	
1	125 mL	PLASTIC	С	Y	✓ N	<u> </u>				☐ Y ☐ N	
SHIPPING METHOD: FED EX DATE SHIPPED: 8/24/10 AIRBILL NUMBER: 8619 9586 7053											
COC NUME	BER:	NO		SIGNATURE	: 5	Pau	eltz	DATE SIG	GNED: 8/	74/10	
REVISED (13/2008						- A				

REVISED 03/2008

STATE OF STATE AND STATE OF THE							
PROJECT NAME: LE Carpenter		PREP	ARED		CHECK		
PROJECT NUMBER: 01545.41.001	вү	SP	DATE: 8/70	A 10 BY:	de)	DATE: 9 2 10	
SAMPLE ID: MW-30D WELL	DIAMET	ER: 2"	4" 6	S" OTHER	₹		į
WELL MATERIAL: PVC SS IRON	GALVA	NIZED STE	EL	OTHER	₹		
SAMPLE TYPE: GW WW SW] DI	LEA	CHATE	OTHER	₹		
PURGING TIME: 095(DATE: 8/2	24/10	SAN	PLE :	TIME: 1108	DA ⁻	TE:8/24/10	
PURGE PUMP DEDICATED BLOO	obee		<u>4</u> su				
METHOD: BAILER		ORP: <u>-</u>			80 mg/	L # Air IN LI	ME
DEPTH TO WATER: 3.90 T/ PVC		TURBIDIT					
DEPTH TO BOTTOM: T/ PVC		NONE	SLIG		ODERATE	VERY	
WELL VOLUME: LITERS GALL	ONS.	TEMPERA		<u>70 °</u> c o	THER:		
VOLUME REMOVED: 78 LITERS GALL		COLOR:	<u>cle</u>		DOR:	JO	
COLOR: Closy, BIK + Orange Floor BOOR: NO)	FILTRATE	(0.45 um)	YES [NO		
548 TURBIDITY		FILTRATE (R F	ILTRATE ODOI	R:	
	ERY	QC SAMP	LE: MS/N		DUP-		
DISPOSAL METHOD: GROUND DRUM OTHE	ER	COMMEN	TS: 1/K:	40 C	2:70	Fe: 1.0	l
TIME PURGE PH CONDUCTIVITY ORP	,	D.O. T	URBIDITY	TEMPERATURE	WATER LEVEL	CUMULATIVE PURGE VOLUME	
(ML/MIN) (SU) (umhos/cm) (mV)) (mg/L)	(NTU)	(°C)	(FEET)	(GAL OF L)	
0951 400 7.54 576 -91			548	16.90	3.40	INITIAL	
0956 1 7.33 504 -117	0.	95 1	165	13.68	4.00	2	
1001 V 7.30 512 -119		65		1355	4.00	4	
1006 7.31 515 -121	0.	44 5	54.2	13,51	4,00	6	
1011 731 517 -120	0.	34 3	6.3	13.46	4.00	8	*
1016 7.30 517 -120	9 0.	53 /	59	13.56	4.00	10	Air
1021 7.31 499 -66	6.	50 3	38 /	13.50	4.00	12	LINE
AIR IN DISCHARGE LINE	e -						
1033 7.79 507 -69	8 6.	88 1	89	13.73	4.00	14	
1038 V 7.57 491 -66	5 7	-68 1	73	13.77	4.00	16	
NOTE: STABILIZATION TEST IS COMPLETE WHE	N 3 SUC	CESSIVE F	READINGS A	RE WITHIN TH	E FOLLOWIN	G LIMITS:	
pH: +/- 0.1 COND.: +/- 5 (<100 ORP: +/-	D.O.:	+/- 10 %	TURB: +/- 1	10 % or <	/= 10	TEMP.: +/- 0.5°C	
BOTTLES FILLED PRESERVATIVE CODES A - NONI	E B-	HNO3	C - H2SO4	D - NaOH	E - HCI	L F	1
NUMBER SIZE TYPE PRESERVAȚIVE FIL	TERED	NUMBER	SIZE	TYPE I	PRESERVATIV	VE FILTERED	
(1 d mL VOA E □ Y	′	42	1 L	AMBER	Α	Y ✓ N	
U/Z 40 mL VOA A Y	′	ZX	125 mL	PLASTIC	В	✓ Y □ N	
Z 1 100 ml PLASTIC F	. <u> </u>					□ Y □ N	
250 mL GLASS A	′						
2/ 125 mL PLASTIC C	′					□ Y □ N	
SHIPPING METHOD: FEDEX DATE SHIP	PED:	8/24/1	6	AIRBILL NU	JMBER: 860	9586 205	\$

WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	LE Carpenter		PREF	PARED			CHEC	KED
PROJECT NUMBER:	01545.41.001	BY:	SP	DATE: 8/	2/10	BY:	90	DATE: 9/2/10

SAMPLE ID			

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OP 1)
1043	400	7.38	491	-64	7-93	91.9	13.22	4.00	30 18
1048	1	7.37	490	-64	7-82	71.5	13.42	4.00	78
1053		7.39	489	-66	7.89	71,3	13.42	4.00	22
1058		7.40	488	-65		55.7	13.70	4.00	24
1103		7.40	491	-65	7.50	56.3	13,42	4,00	26
1108	V	7.41	498		7.80	51.0	13.20	4.00	28
	-					,			
									-
						1			
						40			
		-							
						-			
						2.434A00.0000.41			
		+							
								+	
L]			L			

SIGNATURE:

Stauliz

DATE SIGNED:

8/24/10

WATER SAMPLE LOG

PROJECT NAMI	PROJECT NAME: LE Carpenter PREPARED CHECKED									
PROJECT NUM	BER: 01545	.41.001	В	Υ	SP	DATE:8	24/10 BY:	do	DATE: 9 2 10	
SAMPLE ID:	1W-30	T	WELL DIA	AMET	ER: 🗸 2"		6" OTH	ER	•	
WELL MATERIAL:		✓ss 🗆	IRON G	ALVA	NIZED STI	EEL	□ отн	ER		
SAMPLE TYPE:	GW	ww	sw 🗆 D		LE.	ACHATE	□ отн	ER		
PURGING	TIME: (/	17 DA	TE:8/24/R	<u>, </u>	SAN	IPLE	TIME: 173	7 D	ATE: 8/24/10	
PURGE METHOD:	PUMP /	SLOODER			PH: 7	160 m		O、33 ma	umhos/cm	
DEPTH TO WATE	2.4	T/ PVC				Y: 21.0	NTU	<u></u>	J/L	
DEPTH TO BOTT	OM: 17.98	T/ PVC			☐ NONE			MODERATE	☐ VERY	
WELL VOLUME:	9,06	LITERS	GALLON	S	TEMPERA	TURE:	۰c' <u>ککڅ</u>	OTHER: _		
VOLUME REMOV	ED: ZO	LITERS	GALLON	S	COLOR:	_ON	<i></i>	ODOR: _	MO	
COLOR:	ouna	OD	OR: 1 0		FILTRATE	(0.45 um)	YES	✓ NO		
. 1	6 TUR	BIDITY			FILTRATE	COLOR:	lr	FILTRATE OD	OR: NO	
NONE	SLIGHT	MODERATE	VERY	1	QC SAMF		/MSD	DUP-		
DISPOSAL METH	OD: GROU	ND DRUM	OTHER		COMMEN	ITS: LIK	70	Co2: 20	Fe: 16	
TIME PURC		CONDUCTIVITY	ORP		D.O. T	URBIDITY	TEMPERATU	1	CUMULATIVE	
RAT (ML/M	- 1	(umhos/cm)	OKF (mV)		mg/L)	(NTU)	(°C)	LEVEL (FEET)	PURGE VOLUME (GAL OF L)	
1147 400	7.40	638	-137	5	.97 1	(0	18.63	400	INITIAL	
1152	7.06	821	-152	0	-91 9	16.6	16.04	4.10	2	
1157	7.09	824	-161			59.2	15.96	4.10	U	
1707	7.09	821	-165	O		18.7	15.80	4.10	6	
1707	7.07	816	-166	0	.73	12.8	15.69	4.10	8	
1212	7.11	814	-168	C		6.9	15.67	4.10	10	
1217	7.11	ક(ા	-/69	0		3.7	15.62	1.	12	
1222	7.08	8(1	-170			7.3	15-60	4.10	14	
CZ27	7.11	810	-169			2.7	15.54	4.10	16	
(232 V	7.10	809	763	0		(.3	15.55	4,0	18	
L	<u> </u>	EST IS COMPL	ETE WHEN 3	SHC						
pH: +/- 0.1		5 (<100 ORP:				TURB: +/-		= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C	
BOTTLES FILLE	D PRESERV	ATIVE CODES	A - NONE	В-	HNO3	C - H2SO4	D - NaOH	H E - H	CL F	
NUMBER SIZI	TYPE	PRESERVATI	VE FILTER	RED	NUMBER	SIZE	TYPE	PRESERVAT	IVE FILTERED	
5 40 m	L VOA	Е	□ Y [N	2	1 L	AMBER	Α	□Y ✓N	
2 40 m	L VOA	Α	□ Y [-	N	1	125 mL	PLASTIC	В	✓ Y □ N	
1 100 i		F	UY C	/] N					YN	
1 250 r	nL POLASS	Α	□Y □	N			<i>'</i>		YN	
1 125 r	nL PLASTIC	С	□ Y [N					□ Y □ N	
SHIPPING METH	DD: FED	Fox DA	TE SHIPPED): 	8/24/1	<i>p</i>	AIRBILL N	NUMBER: 86	9 9586 7053	
COC NUMBER:	NA		GNATURE:	-	Paul	elis	DATE SIG		3/24/10	
REVISED 03/2008						()			1-11-	



WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	LE Carpenter		PREF	ARED			CHEC	CKED	
PROJECT NUMBER:	01545.41.001	BY:	SP	DATE:	kulio	BY:	80	DATE: 9	2/10

SAMPLE ID: MW-30_T

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	(FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1237	400	7.10	806	-160	0.33	21.0	15.55	4.10	20
			4-344-40000						
-									
1									
				1					
-									
			:						
								ļ	
									Manager 1 and 1

SIGNATURE:

S. Paulity

DATE SIGNED:

8/24/10

BMT

COC NUMBER: REVISED 03/2008

WATER SAMPLE LOG

DDO JECT NAME:	1500			ppr	-DARIES		OUTOR	
PROJECT NAME:		rpenter		A-14 STERNING FAR	EPARED		CHEOK	
PROJECT NUMBER	R: 01545.	.41.001	BY	SP	DATE: 8/	4/10 BY.	90	DATE: 9/2/10
SAMPLE ID: MU	J-305		WELL DIAM	IETER:	2"	6" OTHE	≡R	
WELL MATERIAL:	PVC	∑∕ŝs □	IRON GAL	.VANIZED S	STEEL	OTHE	ER	
SAMPLE TYPE:	ℤ gw	□ww □	SW 🗌 DI		EACHATE	ОТН	ER	
PURGING	TIME:/3	19 DA	TE:8/24/10	S	AMPLE	TIME: 1410	ZÍ DA	TE: 8/74/10
PURGE 🛮	PUMP	BLDDORR		PH:	7.00 s	U CONDUC	TIVITY: 866	umhos/cm
METHOD:	BAILER	***		ORP:	-149 m	V DO: -	0.10 mg/l	L
DEPTH TO WATER:	4.32	T/ PVC		TURBI	OITY: <u>24.9</u>	NTU		
DEPTH TO BOTTOM	<u> 11. </u>	T/ PVC			NE Z SLI	GHT 🔲	MODERATE	☐ VERY
WELL VOLUME:		LITERS	GALLONS	TEMPE	RATURE:	-85°c	OTHER:	
VOLUME REMOVED	22	LITERS	GALLONS	COLOF	e <u>Cla</u>		ODOR: /	<i>SO</i> '
color: Clbury	Grey	OD.	OR: // 0	_ FILTRA	TE (0.45 um)	YES	✓ NO	
330	, , , , ,	BIDITY		FILTRAT	E COLOR:(le_	FILTRATE ODOI	₹: <i>NO</i>
☐ NONE ☐ SL		MODERATE	☐ VERY	QC SA		/MSD	DUP-	
DISPOSAL METHOD	GROUI	ND DRUM	OTHER	СОММ	ENTS:AIK!	100 C	07125	fe:70
TIME PURGE	PH	CONDUCTIVITY	ORP	D.O.	TURBIDITY	TEMPERATUI	RE WATER	CUMULATIVE
RATE (ML/MIN)	(SU)	(umhos/cm)	(mV)	(mg/L)	(NTU)	(°C)	TEVEL (FEET)	PURGE VOLUME (GAL OR L)
1319 400	6.61	856	108	5.65	339	19.95		INITIAL
1324 1	6.90	869		0.73	289	18.40	4.40	2
1329	6.93	870	-135	0.11	169	18.12	4.40	4
1334	6.96	869	-139	0.12	104	18.03	4.40	6
1339	6.97	870		007	71.3	17.95		8
1344	6.97	869	-143	0.06	51.5	17.94	4.40	10
1349	6.98	868			37.3	17.89	4,40	12
1354	6.99	868	-147		_		440	14
	1	867		0.07	33.8 20.0	17.87	4.40	
1359	6.99	867	. 1			17.88	-	16
1404	6.99		-147		25.1	<u> </u>	4.40	18
							HE FOLLOWIN	
pH: +/- 0.1	COND.: +/-	5 (<100 ORP:	+/- D.	O.: +/- 10 %	6 TURB: +/-	10 % or	= 10</td <td>ГЕМР.: +/- 0.5°С</td>	ГЕМР.: +/- 0.5°С
BOTTLES FILLED	PRESERV	ATIVE CODES	A - NONE	B - HNO3	C - H2SO4	D - NaOH	E - HCI	F
NUMBER SIZE	TYPE	PRESERVATI	VE FILTERE	D NUMBI	R SIZE	TYPE	PRESERVATIV	/E FILTERED
2 % 40 mL	VOA	E	☐ Y ☑	N 2	1 L	AMBER	Α	☐Y ☑N
2 40 mL	VOA	Α	□ Y			PLASTIC	В	✓ Y □ N
1 100 ml	PLASTIC	F -	□ Y	N	×			□ Y □ N
1 250 mL	POLASS	А	□ Y	N		,		□ Y □ N
1 125 mL	PLASTIC	С	□ Y	N ,				□ Y □ N
SHIPPING METHOD:	FEOF	SZ DA	ATE SHIPPED:	8/24/	10	AIRBILL N	NUMBER: 8618	958C 2053

SIGNATURE:

DATE SIGNED:



WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	LE Carpenter		PREF	ARED	•			CHEC	KED	
PROJECT NUMBER:	01545.41.001	BY:	SP	DATE: 🖋	124	10	BY:	20	DATE:9	12/10

SAMPLE ID: MW-305

MLMIN 15U (mnoscin) my (mpl) (nTU) (15) (FET) CALOGO 1409 400 6.99 862 448 0.09 25.3 17.86 4.40 20 22 144 4.40 20 22 4.40 4.40 22 4.40	TIME:	PURGE RATE		CONDUCTIVITY		DØ.	TURBIDITY	TEMPERATURE	WATER LEVEL	CUMULATIVE PURGE VOLUME
	liaea		(SU) Law	(umhos/cm)	(mV)	(mg/L)	(NTU) 753	(°C).	(FEET)	(GAL OF D)
		1	7.00	866			24.9	17.85	4.40	22
		1								
									•	
	1	· · · · · · · · · · · · · · · · · · ·								
								·		
								· ·		

SIGNATURE:

S. Paulibring

DATE SIGNED:

8/24/10

PROJECT NAME:	LE Carper	nter			PREP	ARED .		CH	ECKED
PROJECT NUMBER:	01545.41.	001	E	3Y	SP	DATE:8/	4/10 BY:	90	DATE: 9 2 10
SAMPLE ID: ATA					ER: 2"		6" ОТНІ		
WELL MATERIAL:		SS IRC			NIZED STE		ОТНІ		
	- 6W- -	ww 🗌 sv				CHATE			
	IME:	DATE	:			A SECTION OF	TIME: 149		DATE: 8/24/10
METHOD:	UMP		\angle		PH:	SI		TIVITY:	mg/L umhos/et
DEPTH TO WATER: _	T/	PVC /			TURBIDIT	Y:			
DEPTH TO BOTTOM:_	T/	PVC			NONE	SLI	GHT	MODERATI	E VERY
WELL VOLUME: _		LITERS	GALLO	NS	TEMPERA	TURE:	<u>~°c</u>	OTHER:	
VOLUME REMOVED:_		LITERS	GALLO	NS	COLOR			ODOR:	
COLOR:		ODOR	:	<u> </u>	FILTRATE	(0.45 um)	YES	NO	
	TURBIDI	TY			FILTRATE C	COLOR:		FILTRATE (ODOR:
NONE SLIG	нт МС	DERATE	VEF		QC SAMPI	LE: MS	MSD	DUP-	
DISPOSAL METHOD:	GROUND	DRUM _	OTHER		COMMEN	TS:			
TIME* PURGE RATE (ML/MIN)		NDUCTIVITY umhos/cm)	ORP (mV)		D.O. I. TI	JRBIDITY (NTU)	TEMPERATU (°C)	RE LEVE (FEE	EL PURGE VOLUM
			,				· ·		INITIAL
			/						
						1			
NOTE: STABILI	ZATION TES	T IS COMPLET	E WHEN	3 SUC	CESSIVE R	EADINGS A	RE WITHIN 1	THE FOLLO	WING LIMITS:
pH: +/- 0.1 C	OND.: +/- 5 (<100 ORP: +/-	-	D.O.:	+/- 10 %	TURB: +/-	10 % or	= 10</td <td>TEMP.: +/- 0.5°0</td>	TEMP.: +/- 0.5°0
BOTTLES FILLED F	PRESERVATI	VE CODES A	- NONE	В-	HNO3	C - H2SO4	D - NaOl	1 E-	HCL F
NUMBER SIZE	TYPE P	RESERVATIVE	FILTE	RED	NUMBER	SIZE	TYPE	PRESER\	/ATIVE FILTERED
2 8 40 mL	VOA	E	□ Y	✓ N	2	1 L	AMBER	Α	
2 40 mL	VOA	Α	Y	✓ N	1	125 mL	PLASTIC	В	
1 100 ml	PLASTIC	F	□ Y	☑ N					□ Y □ I
1 250 mL	POLASS	Α	Y	✓ N					Y
	PLASTIC	С	Y	✓ N					
SHIPPING METHOD:	FEDER	C DATE	SHIPPE	D: 8	124/10		AIRBILL I	NUMBER: 8	3619 9586 705
COC NUMBER:	NA	SIGN	IATURE:	3	Jours	di	DATE SIG	GNED:	8/24/10
REVISED 03/2008						()			

REVISED 03/2008

	ALCOHOL: ALCOHOL:						ned Strong Shore		
PROJECT	NAME:	LE Car	penter		PR	EPARED		CHEC	CKED
PROJECT	NUMBER	: 01 54 5.	41.001	вү	SP	DATE:8/	ZU/10 BY:	40	DATE: 9/2/10
SAMPLE I	P: Mu	U-8		WELL DIAM	METER:	2" 4" [6"	ER	
WELL MATE	ERIAL:	PVC	ss [IRON GA	LVANIZED	STEEL	ОТН	IER	
SAMPLE TY	PE:	Z GW	ww	SW 🗌 DI		LEACHATE	□ отн	ER	
PURG	ING	TIME: / S	506 D	ATE: 8/24/10	, S	AMPLE	TIME: 153	3/ 0.	ATE:8/24/10
PURGE	Z	PUMP ,	BLADDER		PH:	7.22 s	U CONDUC	CTIVITY: <u>5 7</u>	umhos/cm
METHOD		BAILER			ORP:		nV DO:	0.09 mg	g/L
DEPTH TO	WATER:	3.20	T/ PVC		TURBI	DITY: 24.	S NTU		
DEPTH TO	воттом	70.15	T/_PVC		□ №	NE SLI	IGHT	MODERATE	☐ VERY
WELL VOL	JME: (0.98	LITERS	GALLONS	TEMPE	RATURE: 1	<u>5.50</u> °c	OTHER: _	
VOLUME F	REMOVED:	[6	LITERS	GALLONS	COLO	r: <u>Cle</u>		ODOR: _/	<u>60</u>
COLOR:	(000g)	Blk.F	CONTIFS OF	OOR: <u>NO</u>	FILTRA	ATE (0.45 um)	YES	₩ O	
	38,1	TURE	BIDITY		FILTRA	TE COLOR:	'lr	FILTRATE OD	OR: 100
NONE	SLI	GHT	MODERATE	UERY	QC SA	MPLE: MS	S/MSD	DUP-	
DISPOSAL	METHOD	GROU	ND DRUM	OTHER	COMM	MENTS: A	12001	02:35	Fe! 7
TIME.	PURGE	PH	CONDUCTIVITY	ORP	D.O.	TURBIDITY	TEMPERATU	IRE WATER	CUMULATIVE
Pagasi Pagasi	RATE (ML/MIN)	(SU)	(umhos/cm)	(mV)	(mg/L)	(NTU)	(°C)	LEVEL (FEET)	PURGE VOLUME (GAL OR L)
1506	400	7.00	563	-117	4,70	38.1	18.29		INITIAL
1511	1	7.75	575	-189	0.34	29.9	1501	3.80	7
1516	1	7.25	575	-196	0.22	27.1	15.14		U
1521	7	774	574	-197	0.13	26.7	15.33	2	6
1526		7.23	573	-197	0.09	24.7	15.49	3.80	8
	V		573	-196	009	24.5			10
153(•	7.77	240	176		164,5	15.50	380	10
		'							
гои	E: STABIL	LIZATION T	EST IS COMP	LETE WHEN 3 S	SUCCESSIV	/E READINGS	ARE WITHIN	THE FOLLOWI	NG LIMITS:
pH: +/-	0.1	COND.: +/-	5 (<100 ORF	D: +/-	0.O.: +/- 10	% TURB: +/-	10 % or	= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
BOTTLES	FILLED	PRESERV	ATIVE CODES	A - NONE	B - HNO3	C - H2SO4	D - NaOl	H E-H0	CL F
NUMBER	SIZE	TYPE	PRESERVAT	IVE FILTERE	D NUMB	SER SIZE	TYPE	PRESERVAT	IVE FILTERED
28	40 mL	VOA	Е	□ Y	N 2	1 L	AMBER	Α	□Y ☑ Ń
2	40 mL	VOA	Α	□ Y	N 1	125 mL	PLASTIC	В	VY N
1	100 ml	PLASTIC	F	_ Y 🗸	N				□ Y □ N
1	250 mL	PGLAGE	Α	□ Y ✓	N				□ Y □ N
1	125 mL	PLASTIC	С	_ Y 🗸	N				□Y □N
SHIPPING	METHOD:	FEO	Fax [ATE SHIPPED:	8/24	10	AIRBILL	NUMBER:	19,9586 205
COC NILINA		1 .0		ICNATURE:	7	00%	DATE SI		Bulin

REVISED 03/2008

	 									
PROJECT NA	ME:	LE Car	penter			PREF	PARED		CHEC	KED
PROJECT NU	MBER:	01545.	41.001	В	1	SP	DATE: \$/	25/10 BY:	90	DATE: 9/2/10
SAMPLE ID:	Mu	·-25 (1	Z)	WELL DIA	METE	R: 2"	4"	6" OTH	ER	•
WELL MATERIA		PVC	ss [IRON G	ALVAN	IZED ST	EEL	ОТН	ER	
SAMPLE TYPE	: [Z GW	ww [SW D]	LE	ACHATE	□ отн	ER	
PURGIN	G	TIME: O	807 [DATE: 8/23/	/c	SAN	IPLE	TIME: 0 4	51 D	ATE:8/25/10
PURGE		PUMP	BLOODE			PH:	7.00 s	<u> </u>	CTIVITY: 6.6	
METHOD:	<i></i>	BAILER				DRP:	. 48 m	iV DO:	1.62 mg	
DEPTH TO WA	ATER:	2.74	T/ PVC		7	TURBIDIT	ry: <i>32.5</i>	NTU		- Annual Control of the Control of t
DEPTH TO BO	TTOM:	8.81	T/ PVC			NONE	☑ su	IGHT 🗌	MODERATE	☐ VERY
WELL VOLUME	<u>:</u>	3.93	LITERS	GALLON	3 Т	EMPERA	ATURE: 1	7.07 ℃	OTHER: _	
VOLUME REM	IOVED:		LITERS	GALLON	s (COLOR:	cirus	floaties	ODOR: _	none
COLOR:		UNG / 0	rough flust	DOR: NO	F	ILTRATE	(0.45 um)	YES	✓ NO	
	100		BIDITY		· -	ILTRATE			FILTRATE ODG	OR:
NONE [MODERATE	VERY		QC SAME		s/MSD	DUP-	
DISPOSAL ME	THOD:	GROUN	1D DRUI	M OTHER		COMMEN	NTS:		NORTH NAT OF COLUMN	
4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	JRGE ATE	PH	CONDUCTIVIT	Y ORP	ם	.о. Т	TURBIDITY	TEMPERATU	RE LEVEL	CUMULATIVE PURGE VOLUME
	JMIN)	(SU)	(umhos/cm)	(mV)	(m	g/L)	(NTÜ)	(°C)	(FEET)	(GAL OF L)
	50	6.96	684	111	7,	12	600	16.82	2.74	INITIAL
0812	į.	695	640	40	3.0	я 1	29.7	17.87	3.60	2
6817		692	649	66	3.4	7 4	12.3	17.88	4,00	4
5580		6.89	1652	45	7.0)q S	37.4	17.77	4.15	6
1827		6.95/	656	(9	Li	_	19,7	1761	4.30	8
5832		7.10	659	17	0.9		?વ.પ	17.39	4.42	10
3837		705	659	-29	0.9	-	33.7	17,34	4.42	(Z
0842		7.04	662	438	(,0	·	33.1	17.24	4.52	14
08017		7,03	663	544	1.2		<u>''.'</u>	1719	9.52	16
n859 \		7.03	662	-46	(.5	. 6	160	07.10	4.62	(8
NOTE	CTARU			PLETE WHEN 3				· · · · · · · · · · · · · · · · · · ·		
pH: +/- 0.1			5 (<100 OR				TURB: +/-		= 10</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
	Salarin ser									
BOTTLES FII				S A - NONE		INO3	C - H2SO4			
	SIZE	TYPE	PRESERVA		_	NUMBER	 	TYPE	PRESERVAT	
	0 mL	VOA	Е		/ N	2	1 L	AMBER	A	O Y V
2 4	0 mL	VOA	A		/ N	1	125 mL	PLASTIC	В	✓Y L N
	00 ml	PLASTIC	F		/ N					
1 25	50 mL	O OLASS	А		N					☐ Y ☐ N
1 12	25 mL	PLASTIC	С	Y [N		,			
SHIPPING ME	THOD:	FE	0 EX	DATE SHIPPED): 8	125/	10	AIRBILL I	NUMBER: 4	3619 9586 2
				CIONATURE	2	W 50	110	DATE OF	CAUCID:	Shelin

WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME:	LE Carpenter		PREF	ARED	A CONTRACT		CHI	ECKED
PROJECT NUMBER:	01545.41.001	BY:	SP	DATE:8	ks/l	BY:	40	DATE: 9/2/10

TIME:	PURGE RATE	PH	CONDUCTIVITY	ORP	D.O	TURBIDITY	TEMPERATURE	WATER	CUMULATIVE
INVIL	RATE (ML/MIN)	(SU)		2010 0000000000000000000000000000000000		A CARLO CONTROL OF THE RESERVE SERVERS		LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0857	ploo	7.60	(umhos/cm)	(mV)	(mg/L) 1.62	(NTU) 32.5	(°C) 17.07	475	20
- O , t	1								
	J			-					
r							,		
~~~									
,,,,,									
			ļ						
		<u> </u>							

SIGNATURE:

5 Poulty

DATE SIGNED:

8/25/10

REVISED 03/2008

BY   SP   DATE   3   BY   DATE   3   BY   DATE   3   BY   DATE   3   BY   BY   BY   BY   BY   BY   BY	PROJECT	NAME:	LE Car	penter		PRI	EPARED		CHEC	KED
WELL DIAMETER:   2	PROJECT	NUMBER	: 01545.4	41.001	BY	SP	DATE 6/2	S//8 BY:	40	DATE: 9/2/10
WELL MATERIAL:	SAMPLE	D: A/1	J-78	7	WELL DIAME	TER: 🖊				
SAMPLE TYPE:   GW   WW   SW   DI		Charles and the control of the contr	officerous and property of the second	2-Mary S. L National Act Property (1992) 1925	IRON GAL	/ANIZED S	STEEL	ОТНІ	ER	
PURGE   PUMP   RIDDLE   PH: {.C.5   SU   CONDUCTIVITY   SE   Umhos/cm   METHOD:   BALLER   DRPH HOD:	<del></del>				sw 🗆 DI		LEACHATE	отні	ER	
PURGE	PURG	BING	TIME: 13	'25 D	ATE: 8/25/10	S	AMPLE	TIME: /4/	0 0/	ATE: 8/75/10
METHOD:	PURGE	Z	PUMP /			PH:	1.25 s	U CONDUC	TIVITY: 681	umhos/cm
DEPTH TO BOTTOM	l .	: 🗀				ORP:	-/49 m	V DO:	<u> වැරඳි</u> mg	/L
WELL VOLUME:	DEPTH TO	WATER:	6.61	T/ PVC		TURBII	DITY: 9.5	NTU		
VOLUME REMOVED	DEPTH TO	воттома	22.71	T/ PVC		NOI	NE 🗌 SLI	GHT	MODERATE	☐ VERY
COLOR: Cloud ODDR: MO FILTRATE (0.45 um) 7 ES 7 NO   SS-6 TURBIDITY   MODERATE   VERY   QC SAMPLE   MS/MSD   DUP-   DISPOSAL METHOD   GROUND   DRUM OTHER   COMMENTS: A/M.! / 100 Cb ! 20 Fe : 16   TIME   PURGE   PH   CONDUCTIVITY   ORP   DO   TURBIDITY   TEMPERATURE   LEVEL   RURGE YOLUME   RURGE YOLUME YOLUME YOLUME   RURGE YOLUME YOLUME YOLUME   RURGE YOLUME YOLUME YOLUME YOLUME   RURGE YOLUME YOLUME YOLUME   RURGE YOLUME YOLUME YOLUME YOLUME YOLUME   RURGE YOLUME YOLUME YOLUME YOLUME YOLUME	WELL VOL	UME: $\ell$	0.43	LITERS	GALLONS	TEMPE	RATURE: tu	<i>1.38</i> °c		
NONE	VOLUME F	REMOVED:	18	LITERS	GALLONS	COLO	R: OR		ODOR: /	JO
NONE	COLOR:	Clou	નુ ં	O	DOR: NO	FILTRA	TE (0.45 um)	YES		
NONE		85.0	TURE	BIDITY		FILTRA	TE COLOR: _C	Ur_	FILTRATE ODG	DR: M
TIME PURGE PH CONDUCTIVITY ORP D.O. TURBIDITY TEMPERATURE LEVEL PURGE VOLUME (MLMIN) (SU) (IMPOSION) (MV) (MIL) (NTL) (TO) (FEET) (GAL ORL) (GAL O	NONE	SLI	GHT 🖊	MODERATE	_ VERY					
TIME   PATE   PH   CONDICTIVITY   GRP	DISPOSAL	METHOD:	GŔOUN	ID DRUM	OTHER	СОММ	ENTS: A/K.	! 100	Con: 20	> Fe: 16
MUMIN   (SU)	TIMÉ	CONTRACTOR AND ACTION OF THE PARTY OF THE PA	PH :	CONDUCTIVITY	ORP	D.O.	TURBIDITY	TEMPERATU		
1350			(SU)	(umhos/cm)	(mV)	( mg/L)	(NTU)	(°C)		
1375	1325	400	6-68	532	83	7.70	85-6	1945	6.61	
1340	1330	t	7.07	673	-168	0.61	116	14.94	6.68	2
1340	1335	1	7.13	676	-126	5.19	_	14.75	6.68	4
1345	1340		_			2.15		14.63	6.68	6
1350	1345		7.70							8
1355	F						-		6.68	
1400					/ /			1.		<del> </del>
1465			723							
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:  pH: +/- 0.1			1 .							6/
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:  pH: +/- 0.1		1		X	<del></del>		_		11-	
PH: +/- 0.1         COND.: +/- 5 (<100 ORP: +/- D.O.: +/- 10 % TURB: +/- 10 % or          TURB: +/- 10 % or          TEMP.: +/- 0.5°C           BOTTLES FILLED         PRESERVATIVE CODES A - NONE         B - HNO3         C - H2SO4         D - NaOH         E - HCL         F           NUMBER         SIZE         TYPE         PRESERVATIVE         FILTERED         NUMBER         SIZE         TYPE         PRESERVATIVE         FILTERED           2         40 mL         VOA         A         Y         N         1         125 mL         PLASTIC         B         Y         N           1         100 ml         PLASTIC         F         Y         N         N         Y         N           1         125 mL         PLASTIC         C         Y         N         Y         N						· .		I		
BOTTLES FILLED         PRESERVATIVE CODES A - NONE         B - HNO3         C - H2SO4         D - NaOH         E - HCL         F	_									
NUMBER SIZE TYPE PRESERVATIVE FILTERED NUMBER SIZE TYPE PRESERVATIVE FILTERED  2 40 mL VOA E										
25       40 mL       VOA       E       Y       N       ? 2       1 L       AMBER       A       Y       N         2       40 mL       VOA       A       Y       N       1       125 mL       PLASTIC       B       Y       N         1       100 ml       PLASTIC       F       Y       N       Y       N         1       250 mL       CLASS       A       Y       N       Y       N         1       125 mL       PLASTIC       C       Y       N       Y       N					<del>-</del>	T		· ·		
2       40 mL       VOA       A       □ Y ☑ N       1       125 mL       PLASTIC       B       ☑ Y □ N         1       100 ml       PLASTIC       F       □ Y ☑ N       □ Y ☑ N         1       250 mL       CLASS       A       □ Y ☑ N       □ Y ☑ N         1       125 mL       PLASTIC       C       □ Y ☑ N       □ Y ☑ N								<u> </u>		<del></del>
1 100 ml PLASTIC F										
1 250 mL CLASS A Y N DY N  1 125 mL PLASTIC C Y N DY N							125 mL	PLASTIC	В	
1 125 mL PLASTIC C Y N DY N	1 100 MI PLASTIC F LY									
										UY UN
SHIPPING METHOD: FEORY DATE SHIPPED: 8/25/10 AIRBILL NUMBER: 8/19 9586 7064	1	125 mL	PLASTIC	С	YV	۷		-		Y   N
	SHIPPING	METHOD:	FEOF		DATE SHIPPED:	8/2	5/10	AIRBILL I	NUMBER: 8	19 9586 2064

#### BMT

			24.012.015.00	21153.2100.0000C3346004					Carlos Designation of Person	
ROJECT NAME:	LE Carp	enter		F	PREPA			CHE	CKED	
ROJECT NUMBE	R: 01545.4	1.001	BY	SF	· [	DATE: 8/2	5/12 BY:	40	DATE:	9/2/10
AMPLE ID:	NW Z	85	WELL DIAM	ETER:	2"	4" 6	6" OTH	ER		
VELL MATERIAL:	PVC [	√ss □	IRON GAL	VANIZE	ED STEE	ΞL	□ отн	ER		
AMPLE TYPE:	☑ GW [	ww	SW 🗌 DI	[	LEA	CHATE	□ отн	ER		
PURGING	TIME: 14	134 DA	TE: 8/28/10		SAMI	PLE	TIME: 15	09	DATE: 8	125/16
PURGE Z	PUMP	Bloom	<u>,                                    </u>	PH:	7.	( <b>&amp;</b> su	CONDUC	CTIVITY: 6	<u>58</u>	umhos/cm
METHOD:	BAILER			OR	P:	<u>53</u> m\	/ DO:	007	mg/L	
DEPTH TO WATER	6.75	T/ PVC			RBIDITY	(: <u>9.0</u>	_ NTU			
DEPTH TO BOTTO	м: <u>/t.57</u>	T/ PVC			NONE	SLIC		MODERATE		VERY
WELL VOLUME:	6.97	LITERS	GALLONS	TEN	/IPERAT		50 °C	OTHER:		
VOLUME REMOVE	D: <u>1</u> 4	LITERS	GALLONS	со	LOR:	<u> </u>		ODOR:	NO	
COLOR: OR	6Ki	60 (155 OC	OR: 100	FIL	FRATE (	(0.45 um)	YES	✓ NO		
76.	6 TURB	IDITY		FILT	TRATE C	OLOR: _ <i>(</i> )	lr_	FILTRATE C	DOR: NO	
NONE S	LIGHT	MODERATE	☐ VERY		SAMPL		MSD (	DUP-	02	<b>&gt;</b>
DISPOSAL METHO	D GROUN	ID 🗌 DRUM	OTHER	co	MMENT	rs: AIK.	100	Car 1	8 1	<u>: 2</u>
TIME PURGE	PH I	CONDUCTIVITY	ORP	D.O.	lπ	JRBIDITY	TEMPERATU	JRE WATE		ULATIVE E VOLUME
RATE (ML/MIN		(umhos/cm)	(mV)	( mg/l	١ .	(NTU)	(°C)	(FEET		LOKE
1434 460		554	-99	4.16		6.6	122			NITIAL
1439	7.15	654		6,4		77	1590		4	2
1444	7-17	655		0.2		7.0	15.78	<u> </u>		4
V	7.17	657	-146		10	7.2	15.56			6
1449		655	-145	0.14		3.9	15,5			8
1454	7.18									<u>'</u> 0
1459	7.16	656	-148	00	•	8.6	15.50			
1504	7.18	658	-151	0.07		8.6	15.51	6.78		2
1509 V	7.18	658	-153	007	<i>I</i> 9	20	15.50	6.7	8 14	1
	>									
NOTE: STA	BILIZATION T	EST IS COMPI	LETE WHEN 3 S	SUCCES	SSIVER	EADINGS A	RE WITHIN	THE FOLLO	WING LIM	ITS:
pH: +/- <b>0.1</b>		5 (<100 ORP				TURB: +/-		= 10</td <td></td> <td>: +/- 0.5°C</td>		: +/- 0.5°C
BOTTLES FILLE	PRESERV	ATIVE CODES	A - NONF	B - HN		C - H2SO4	D - NaO	H E-	HCL F-	
NUMBER SIZE		PRESERVAT	- 		JMBER	<del></del> 1	TYPE	PRESERV		FILTERED
<i>!</i>		E	Y		14	1 L	AMBER	А		YVN
4		A	Y 2		12	125 mL	PLASTIC	В	-  -	] Y   N
<del>-/1</del>		F			, ,					Y
100 m	- nosic									] Y   N
1 250 m		Α								]Y   N
χν 125 m	L PLASTIC	С	Y   V	N	<del>/                                    </del>					
SHIPPING METHO	D: FED	Ex c	DATE SHIPPED:	8/	25/1	0	AIRBILL	. NUMBER:		
OOO NUMBER	1,0		SIGNATI IDE:	1	1	l.	DATE S	IGNED:	8/2	5/10

PROJECT NAME: LE Carp	enter			PREPA	4		CHEC	(ED
PROJECT NUMBER: 01545.4	1.001		BY	SP D	DATE: 8/Z	5/10BY:	do ,	DATE: 9 2 10
SAMPLE ID: RB-0 ( WELL MATERIAL: PVC [ SAMPLE TYPE: GW [	]ss   ]ww	IRON [		NIZED STEE	☐ 4" ☐ 6 EL CHATE	OTHE	R NA	
PURGING TIME:	DA	ATE:		SAMI	PRESIDENCE AND ADDRESS OF THE PRESID	IME: /6	30	TE: 8 /25/16
PURGE		/		PH: ORP:	SU mV		mg.	umhos/cm//L
	r/ PVC			TURBIDITY  NONE	′: □ slig		MODERATE	VERY
	I/ PVC	☐ GALL	ONS	TEMPERAT			OTHER:	
WELL VOLUME:	LITERS	GALL		COLOR:	OKL		ODOR:	
COLOR:		OOR:		FILTRATE (	(0.45 um)		✓ NO	
TURB				FILTRATE C QC SAMPLE	OLØR:		FILTRATE ODC	DR:
DISPOSAL METHOD: GROUN	D 🗌 DRUM	OTHE	R	COMMENT	rs:			
TIME PURGE PH RATE (MUMIN) (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)			JRBIDITY (NTU)	TEMPERATU	RE WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L) INITIAL
RINSE BLANK	on Si	w <i>S</i> _x	mple	; Seo.	ор.			
NOTE: STABILIZATION TE	EST IS COMP 5 (<100 ORF						THE FOLLOWI	NG LIMITS: TEMP.: +/- 0.5°C
BOTTLES FILLED PRESERVA	ATIVE CODES	A - NON	E B-	- HNO3	C - H2SO4	D - NaOl	H E-H	CL F
NUMBER SIZE TYPE	PRESERVA ⁻	TIVE FIL	TERED	NUMBER	SIZE	TYPE	PRESERVAT	
25 40 mL VOA	Е	Y	′ ✓ N	2	1 L	AMBER	Α	YVN
2 40 ml VOA	A-3	Y	′ ✓ N		125 mL	PLASTIC	В	VY N
1 100 ml PLASTIC	F_	<u> </u>	′ ✓ N					Y N
1 250 mL GLASS	A.	_ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	′ 🔽 N					N N
1 125 ml PLASTIC	e^	<u> </u>	′ V N	<u> </u>				Y   L   N
SHIPPING METHOD: FEO	£	DATE SHIP	PED:	8/25/1	10			619 9586 2064
COC NUMBER: MA		SIGNATUR	E: <u></u>	<u> </u>		DATE SI	GNED:	8   75   10_

PROJECT NUMBER: 01545.41.001   BY SP   DATE	PROJECT NAME: LE Carpenter		PREPARED		CHECKED	
WELL MATERIAL:	PROJECT NUMBER: 01545.41.001	BY	SP DATE: 8/	25/10 BY: 2	DATE: 9\1	10
WELL MATERIAL:	SAMPLE ID: 176-02 WE	ELL DIAMETER	R: 🗸 2" 🔲 4" 🔲	6" OTHER		
PURGING		GALVANI	IZED STEEL	OTHER	N/A	
PURGE	SAMPLE TYPE: GW WW SW	∑(oi	LEACHATE	OTHER		
METHOD: BALLER  ORP: mv DO: mg/l  DEPTH TO WATER  T/ PVC  DEPTH TO WATER  T/ PVC  DEPTH TO BOTTOM  T/ PVC  DOC SUBJECT  DOOR  TURBIDITY  FILTRATE (0.45 um)  PVES  NO  FILTRATE (0.45 um)  PVES  NO  FILTRATE COLOR:  FILTRATE COL	PURGING TIME: DATE:					118
DEPTH TO WATER	PURGE DUMP	<u> </u>	PH: SL	J CONDUCTIV	/ITY: umho:	s/cm
DEPTH TO BOTTOM	METHOD: BAILER		ORP:m\	/ DO:	mg/L	
WELL VOLUME:    LITERS   GALLONS   GALLONS   TEMPERATURE: 'C OTHER:   VOLUME REMOVED:						,
VOLUME REMOVED:   LITERS   GALLONS   GOLOR   ODOR:    VOLUME REMOVED:   LITERS   GALLONS   GOLOR   ODOR:    VOLUME REMOVED:   LITERS   GALLONS   GOLOR   ODOR:    VOLUME REMOVED:   LITERS   GALLONS   FILTRATE (0.45 um)   YES   NO    FILTRATE (0.45 um)   YES   NO    FILTRATE COLOR:   FILTRATE ODOR:    COMMENTS:   MS/MSD   DUP.    DISPOSAL METHOD   GROUND   DRUM   OTHER   COMMENTS:    VERY   COMMENTS:   MS/MSD   DUP.    DISPOSAL METHOD   GROUND   DRUM   OTHER   COMMENTS:    NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:    PH: +- 0.1   COND: +- 5 (+100 ORP: +- D.O.: +- 10 % TURB: +- 10 % or <= 10   TEMP: +- 0.5°C    BOTTLES FILLED   PRESERVATIVE CODES A NONE   B - HNO3   C - H2SO4   D - NAOH   E - HCL   F -    NUMBER   SIZE   TYPE   PRESERVATIVE FILTERED   NUMBER   SIZE   TYPE   PRESERVATIVE   FILTERED    NUMBER   SIZE   TYPE   PRESERVATIVE   FILTERED   NUMBER   SIZE   TYPE   PRESERVATIVE   FILTERED    2   40 mL   VOA   A						
COLOR:	VVELE VOLONIE.					
TURBIDITY    NONE	VOEOWIE NEWOVED.		<u> </u>			
NONE	COLOR: ODOR:	F	FILTRATE (0.45 um)			
DISPOSAL METHOD GROUND DRUM OTHER COMMENTS:  TIME PURGE PH CONOUCTIVITY ORP D.O. TURBIDITY TEMPERATURE LEVEL PURGE VOLUME (GAL OR L)  (INTU) (TIG/L) (TIG/L) (TIG/L) (TIG/L)  NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:  PH: +/- 0.1 COND.: +/- 5 (<100 ORP: +/- D.O.: +/- 10 % TURB: +/- 10 % or   BOTTLES FILLED PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - NUMBER SIZE TYPE PRESERVATIVE FILTERED SIZE SIZE SIZE SIZE SIZE SIZE SIZE SIZE		_ —				
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:  PH: +/- 0.1 COND.: +/- 5 (<100 ORP: +/- D.O.: +/- 10 % TURB: +/- 10 % or = 10 TEMP: +/- 0.5°C  BÖTTLES FILLED PRESERVATIVE CODES A NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - NUMBER SIZE TYPE PRESERVATIVE FILTERED SIZE SIZE SIZE SIZE SIZE SIZE SIZE SIZE</td <td></td> <td></td> <td></td> <td>MSD _</td> <td>] DOP-</td> <td></td>				MSD _	] DOP-	
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:   PH: +/- 0.1   COND.: +/- 5 (<100 ORP: +/- D.O.: +/- 10 % TURB: +/- 10 % or = 10 TEMP.: +/- 0.5°C   NUMBER SIZE TYPE PRESERVATIVE FILTERED NUMBER SIZE TYPE NUMBER S</td <td>DISPOSAL METHOD: GROUND DRUM O</td> <td>THER TO</td> <td>COMMENTS:</td> <td></td> <td></td> <td></td>	DISPOSAL METHOD: GROUND DRUM O	THER TO	COMMENTS:			
ML/MIN  (SU)		ORP D.	O.O. TURBIDITY	TEMPERATURE		HIGH HOLE CONCUR
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In executing this agreement, the client acknowledges acceptance of the terms of the agreement as listed on the reverse side.

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In executing this agreement, the client acknowledges acceptance of the terms of the agreement as listed on the reverse side.

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In executing this agreement, the client acknowledges acceptance of the terms of the agreement as listed on the reverse side.

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Pi 2) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )			Item #	. 1	. #	\	)	}	30					TRACE NO.	Attn:	City, Sta	Billing A	Project Name:	Project #:	Email Address:	Phone:	City, State,	Mailing Address	Client Name:		_ T	† 7
2)		久	PECEA	E, 3	) ´	5,0	3/	l'	000			8/26/10	Stratio	DATE TAKEN		City, State, Zip Code_	Billing Address (if different)	Name:	6			ite, Zip Code:	Mailing Address:	ame: KM	9	the science	.} }! ! }
ars/white.			ECEASED BY	JE 0.00	A	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0	6	(C)	في	1	2 % 2 %	500 S	TIME TAKEN METALS FIELD FILTERED		MAD	rent)	C Mon	U.	からる。下小の	\(\sigma_{\sigma}\)	0376		2		he science of compliance	}
		17	RE			,	2.0		(	2)}=	, 00°	7000	100	FILTERED	Phone:			Torkio	00/	OUR	1 1		1000	2   C	,	phone toll-free fax	
		11	RECEIVED BY		Pi	nu Eu	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	8		2	2	3/12/1	222	CLIENT	e: 	7		573	PO #:	RUSORDE	Fax:	3 3 3 3	VERCUOO	1		231.773.5998 800.733.5998 231.773.6537	
	7	110	DATE	121	nw.	6		3.		v		3		CLIENT SAMPLE ID	Fax:_			Sampled by:	Q:	@ rm /iv	246 31	ななられ					4 _
		1045	TIME			13 3		( (	O			Carri						A	Trace Quote #:	Cox C	1580			101	www.trace-labs.com		
H		1	Item			,,		. "	. 47		and the second	3	1	MATRIX NUMBER OF CONTAINERS		-نسسه		> *   P	*.				3			Laboratories, Road 444-2673	
4)	14	3)	, a	and the second	-	1													Special	NPDES	MERA TME		TR	ACE US	SE ONL	Y .	<b>7</b>
			RELEASED BY														<b>\</b> 4		İ	<	MERA TMDL's		Soil Volatiles		Logged By:		
			ED BY																				Volatiles Preserved:	ice:			
_			· · · · · · ·									~						ANA	* Requires	* 2-4 Day (RUSH)	Standard (2 wk)	1	a: MeOH			Page_	
			REC									****	*@tess	3%	S.		/ /_	ANALYSIS REQUESTED	Requires prior approval	(RUSH)	2 wk)		H En Core			****	•
			RECEIVED BY											N.		>< >\	Q	3EQUE	ova [	ם ס				Preserva	Checked By:	01	h Na
3.4°	. ripe	venneste.																STED	SO = Soli	SE = Sediment	S = Soil	Mathick	Low Level	Preservative Checked:	ad By:		
1		7.5	DATE											REN					SO = Solid Waste	diment	¦ (₹		Lab				- - - -
	%. 		mi	(a)										REMARKS			\		SL = Sludge	A = Air	WI = Wipes			Yes No			TRACE ID NO.
			TIME				`.	3						Possible			_		SL = Sludge	A = Air	ipes		i.	N   A			Ć

'e,



PROJECT NAME:	LE Carpenter
PROJECT NUMBER:	01545.41.001
PROJECT MANAGER:	J. Overvoorde
SITE LOCATION:	170 N. Main Street Wharton, NJ 07885
DATES OF FIELDWORK:	9/9/2010 TO 9/a/10
PURPOSE OF FIELDWORK:	3Q10 Sampling Event SW SAMPLE COLLECTION.
	Scott Pawlukiewicz
WORK PERFORMED BY:	

Scort Cambriever 9/9/10
SIGNED DATE

CHECKED BY DATE



#### **GENERAL NOTES**

PROJECT NAME: LI	E Carpenter	DATE:	9/	10	TIME ARRIVED: 6745
PROJECT NUMBER:	01545.41.001	AUTHOR:	Scot	t Pawlukiewicz	TIME LEFT:   100

WEATHER
TEMPERATURE: (5-70 °F WIND: 0-5 MPH VISIBILITY: CLEAR, SUMM
WORK / SAMPLING PERFORMED
Courer Sw Sauples: DRC-02, Sw-D-5, Sw-R-1, Sw-R-2, Sw-R-3, Sw-R-4, Sw-D-4 (Dup-01)
5W-R-3, 5W-R-4, 5W-D-4 (DUP-01)
Sw-R-6, Sw-D-3, Sw-D-2 (MS/MSD), Sw-D-1,
RB-01.
WL INO: SW-R-1 (3.01); MW-355 (6.75"); SW-D-2 (Z.90)
•

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN

		COMMUNICATION
NAME	REPRESENTING	SUBJECT / COMMENTS
J. OLEQUODEDE	RMT	STATUS UPPORE, WL COCKETION,
		STATUS UPPORE, WE COLLECTION, SITE CONSITIONS (Dry, WLS LOW).
		8 3

Signed 9/9/

CHECKED BY

9/29/10

#### BMT

PROJECT	NAME:	LE Car	penter				PREP	ARED			CHE	CKEL	)		
PROJECT	NUMBER	: 01545.	41.001		BY		SP	DATE: 9/0	elio BY	d	0	DAT	E:9/	29/	(0
SAMPLE	o: 19 L	3C-0'	2		WELL DIAN	ΛΕΤ	ER: 🗸 2"	4"	6" 🗸 O	THER	N/A				
WELL MATI	SECURE NAME OF STREET OF STREET	DVC	□ss [	IRC	N GA	NIZED STE	EL	☑ O.	THER	N/A					
SAMPLE TY	PE:	☐ GW	□ ww [	☑ sw	/	LEACHATE OTHER									
PURC	BING	TIME:		DATE:			SAM	PLE	TIME: 0	37S		DATE:	9/0	i/I	0
PURGE METHOD	. –	PUMP BAILER			/	PH:         SU         CONDUCTIVITY:         umhos/cm           ORP:         mV         DO:         mg/L									
DEPTH TO			T/ PVC					Y:	<del>.   </del>						
DEPTH TO	BOTTOM:		T/ PVC				NONE	SLI	GHT [	MOI	DERATE	,	U VI	ERY	
WELL VOL	JME:		LITERS		GALLONS		TEMPERA	TURE:	°C	ØTF	ER:				
VOLUME F	REMOVED:		LITERS		GALLONS		COLOR:		_/	ODO	OR:				
COLOR:	_/			ODOR:			FILTRATE	(0.45 um)	YES	V	NO				
		TURE	BIDITY				FILTRATE (		****	FIL	TRATE O	DOR:			
NOME	SLI	GHT 🗌	MODERATE	<u> </u>	VERY		QC SAMP	(E: MS	/MSD		DUP-		-		
ØISPOSAL	METHOD:	GROU	ND DRU	JM 🗌	OTHER		COMMEN.	TS:							
TIME 1	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIV		ORP (mV)		D.Ø. 详 mg/L)	URBIDITY (NTU)	TEMPERA		WATER LEVEL (FEET)	PU	UMUL RGE \ (GAL (	OLU/	ME
										·				# <b>\</b> L	
										***************************************					
	M-04/04-01-1-17-1-1														
															$\dashv$
						ļ									
			EST IS COM								FOLLOV			-	
pH: +/-	267-0-4890	COND.: +/-		RP: +/-			+/-	TURB: +/-		r =</td <td></td> <td></td> <td>1P.: +/</td> <td></td> <td></td>			1P.: +/		
			ATIVE CODI		Ι			C - H2SO4		<del></del>	E - 1		F		<u> </u>
NUMBER	SIZE	TYPE	PRESERV	ATIVE	FILTERE	Ţ	NUMBER	SIZE	TYPE	PR	ESERVA	ITIVE		TERE	
2	40 mL	VOA	E			N							Y		N
					□ Y □	N							□ Y		N
					□ Y	N									N
					□ Y □	N									N
					□ Y □	N							□ Y		N
SHIPPING	METHOD:	FEOF	<u></u>	DATE	SHIPPED:		3/4/10		AIRBIL	L NUM	BER: 8	619	958	6 8	209
COC NUME	BER:	νΔ		SIGNA	ATURE:	abla	law	bhi	DATE			9/	2/10		
REVISED (	03/2008					$\underline{\hspace{0.1cm}}$	, , , , , ,	$\overrightarrow{A}$				=	1-		

# BMT

PROJECT	NAME:	LE Ca	rpenter				PREP	ARED			C	HECKE	iD
PROJECT	NUMBER	: 01545	.41.001		ву		SP	DATE:	9/9/	O BY:	90	DA	TE: 9/29/10
SAMPLE	ابن کی ا	-D-5		di Hediya	WELL DIA	MET	ER: 🗸 2"	4"	<u> </u>	✓ OTH	HER N/A		
WELL MAT	ERIAL:	PVC	ss	☐ IRC	ON GA	LVA	NIZED STE	EEL		✓ OTH	HER N/A		
SAMPLE TY	YPE:	☐ GW	□ww	☑ sv	V 🔲 DI		LE/	ACHATE		□ отн	HER		
PURC	BING :	TIME:		DATE:			SAN	PLE	TII	ME: 08	30	DATE	9/9/10
PURGE		PUMP			/		PH:		SU	CONDU	CTIVITY:		umhos/cm
METHOD	:	BAILER					ORP:		mV	DO:		_ mg/L	
DEPTH TO	WATER:		T/ PVC	$\overline{}$			TURBIDIT	Y:		NTU			
DEPTH TO	BOTTOM:		T/ PVC				NONE		SLIGH	т 🗀	MODER/	KTE	☐ VERY
WELL VOL	UME:		LITERS		GALLONS	;	TEMPERA	TURE:		°C	OTHER:		
VOLUME F	<del></del>	$\overline{}$	LITERS		GALLONS	;	COLOR:				ODOR:		
COLOR:				ODOR	•		FILTRATE	(0.45 ur	n)	YES	√ NO		
	$\overline{}$	THE	BIDITY				FILTRATE	·	<u>/</u> _	=	<del></del>	E ODOR:	
NONE	SLI		MODERAT	E	VERY		QC SAMP		MS/MS	SD.	DUF	** ** ***	
			ND DR		OTHER		COMMEN				<u> </u>		· · · · · · · · · · · · · · · · · · ·
								e la maria de la composición de la composición de la composición de la composición de la composición de la comp			1 100		aelvisioo-rivi-es
TIME	PURGE RATE	PH	CONDUCTION	/ITY	ORP		D.O.   Т	URBIDIT	Y.   T	EMPERATI			GUMULATIVE URGE VOLUME
	(ML/MIN)	(SU)	(umhos/cr	n)	(mV)	(	mg/L)	(NTU)		(°C)		EET)	(GAL OR L)
													INITIAL
						-							
						-							
						-							
						J						<u> </u>	
			EST IS COM			SUC	CESSIVE F			WITHIN	THE FOLI	LOWING	LIMITS:
pH: +/-		COND.: +/-	0	RP: +/-	C	0.0.:	+/-	TURB:	+/-	or	=</td <td>TE</td> <td>MP.: +/-</td>	TE	MP.: +/-
BOTTLES	FILLED	PRESERV	ATIVE COD	<u>ES</u> A-	NONE	В-	HNO3	C - H2S	604	D - NaO	н і	E - HCL	F
NUMBER	SIZE	TYPE	PRESERV	ATIVE	FILTERI	ED	NUMBER	SiZE		TYPE	PRESE	RVATIVE	FILTERED
2	40 mL	VOA	E		□ Y	N							□ Y □ N
					□ Y □	] N							YN
						N		<u> </u>					YN
					Y	N			-		1		□Y □N
		<del> </del>			Y	N			_				
					<u> </u>	1	-/-	<u> </u>		T			
SHIPPING	METHOD:	FEO	<u> </u>	DATE	SHIPPED:	_	8/3/40			AIRBILL	NUMBER	8619	9586 20
COC NUME	BER:	- NA		SIGNA	ATURE:	$\leq$	· Tand	lehi	<u> </u>	DATE SI	GNED:	9	9/10
REVISED (	03/2008								1	<del></del>			

PROJECT N	AME:	LE Ca	penter				PREF	PARED				CHECK	ŒD.		
PROJECT N	UMBER	: 01545	41.001			BY	SP	DATE: 9	9/10	BY:	de		DATE:	9 29	10
SAMPLE ID:	CONTRACTOR SAUGESTANCE				#			4"	] 6"	✓ ОТН ГО ОТН		N/A		•	
WELL MATER		PVC	SS			<del></del>	NIZED ST					I/A	^···		
SAMPLE ITP		GW	☐ ww	✓ S\	<u> </u>	DI		ACHATE		ОТН					
PURGII	NG	TIME:		DATE	:			APLE : :	8	E: 08	<del></del>		TE: 9/		
PURGE METHOD:	_	PUMP					1				CTIVIT	Y:		umho	os/cm
		BAILER	T/ D)/C		$ \leftarrow$			n				mg/l	-/		
DEPTH TO W			T/ PVC		<del></del>		NONE	ΓY: . □ SL		NTU	MODE	BATE		VER'	Y
WELL VOLUM			LITERS		GALLO	NS		ATURE:			ØTHE			·	
VOLUME REI		$\overline{}$	LITERS		GALLO		COLOR:	TORE.			ODOF				
COLOR:		/			₹:		<del>                                     </del>	(0.45 um)	<u></u>	YES	√ N				
	$\overline{/}$	TUR	BIDITY				FILTRATE			<del>-</del>	<del></del> -	ATE ODO	 <b>२</b> :		
NONE	SLIC		MODERATI	E	☐ VEI	₹Y		LE: MS	S/MSI	)		UP-	<u>"</u>		
DISPOSAL M	IETHOD:[	GROU	ND DR	UM [	OTHER	₹	COMMEN	NTS:						-	
THRE	PURGE RATE VL/MIN)	PH (SU)	CONDUCTIV		ORP (mV)		D.O.	FURBIDITY: (NTU)	e en	MPERATL (°C)	IKE	WATER LEVEL (PEET)	PURG (G/	IULAT E VOL AL OR NITIAI	L) L)
										BARANCE CO. B. C.					-
							-	***************************************							
		-													
								/							
						$\bigcap$									
			_												
NOTE:	: STABIL	IZATION T	EST IS CON	<b>IPLET</b>	E WHEN	3 SUC	CESSIVE I	READINGS	ARE	WITHIN	THE FO	OLLOWIN	G LIM	TS:	
pH: +/-	С	OND.: +/-	0	RP: +/	-	D.O.:	+/-	TURB: +/-		or	=</td <td>Т</td> <td>EMP.:</td> <td>+/-</td> <td></td>	Т	EMP.:	+/-	
BOTTLES F	(LLED)	PRESERV	ATIVE COD	ES A	- NONE	В-	HNO3	C - H2SO4	4	D - NaOl	1	E - HCL	. F-		
NUMBER	SIZE	TYPE	PRESERV	ATIVE	FILTE	RED	NUMBER	SIZE	-	TYPE	PRES	SERVATIV	Æ F	ILTE	RED
2	40 mL	VOA	Е		□ Y	✓ N								Υ [	N
					□ Y	□ N								Υ [	N
					□ Y	N								Υ [	N
					□ Y	□N								Υ [	□N
					□ Y	□N								Y	□N
SHIPPING ME	ETHOD:	FEOF	<del>'</del>	DATE	SHIPPE	D:	9/2/1	<u>'</u>		AIRBILL I	NUMBE	ER: <i>861</i>	99	586	209
COC NUMBE		NA			ATURE:	_Z	31/an	4 / 1		DATE SIG		3 <u>0</u> 0		110	
REVISED 03/				3.314	O I \L.		, , , , , , ,	<del>-</del> (			J. VLD.		7	110	

PROJECT	NAME:	LE Ca	rpenter				PRE	PARED			CH	IECKE	Ď.	
PROJECT	NUMBER	: 01545	.41.001		B,	Y	SP	DATE:	9/q/	BY:	90	DA	TE: 9 2	alio
SAMPLE I WELL MAT SAMPLE T	ERIAL:	/+ /2 - 2 ☐ PVC ☐ GW	□ss	☐ IRC	N G	ALVA	ΓER: ☑ 2 ANIZED S			√ OTH √ OTH	IER N/A			
PURC	BING :	TIME:		DATE:			SA	MRLE	TI	 ME: 084	'5	DATE	9/9/	0
PURGE METHOD		PUMP BAILER				/			SU	CONDU	CTIVITY: _		11/	08/cm
DEPTH TO	WATER:		T/ PVC	$\overline{/}$			1	ITY:					/	
DEPTH TO	BOTTOM:		T/ PVC				□ мом	E 🗌	SLIGH	IT 🗌	MODERA	ſĒ	VER	Υ
WELL VOL	UME:		LITERS		GALLON		TEMPER	ATURE:		°C_	OTHER:			
VOLUME F	REMOVED:		LITERS		GALLON	S	COLOR:	4-000-0-1-			ODOR:			
COLOR:				ODOR:			FILTRAT	E (0.45 ur	n) _	YES	✓ NO			
	/_		BIDITY		_			COLOR:			FILTRATE	ODOR:		
NOME			MODERATE		VERY		QC SAM		MS/MS	SD	DUP-	<del> </del>	<del></del>	
DISPOSAL	. METHOD:	GROU	ND DRI	JM 📙	OTHER		COMME	NTS:					· · · · · · · · · · · · · · · · · · ·	
TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIV		ORP (mV)		1000000000	TÜRBIDIT (NTU)	1.5	EMPERATI	JRE LEV LEV (FE	ŒL PL	CUMULAT JRGE VOI (GAL OR INITIA	L)
													<del> </del>	
						-								
		,								· · · · · · · · · · · · · · · · · · ·				
		·												
						-							/	
<b>NO</b> 7		IZATION T	EST IS CON	IPLETE RP: +/-			CESSIVE	READING TURB:			THE FOLL(		LIMITS: MP.: +/-	
######################################	FILLED	PRESERV	ATIVE COD	ES A-	NONF	В-	- HNO3	C - H28	 SO4	D - NaOl		- HCL	F	
NUMBER	SIZE	TYPE	PRESERV				NUMBEI	<del></del>		TYPE	PRESER		FILTE	RED
2	40 mL	VOA	E			N	1401010	0121	_	1	- INLOUR	VALIVE.	TY	N
-	.5					] N							L I I L	N
					□ Y □	N							Y [	
SHIPPING	METHOD:	FEOR	×	DATE	SHIPPED	:	9/9/1	טי		AIRBILL	NUMBER:	8619	9586	र०१-
COC NUME		NA		SIGNA	TURE:	3	- Jan	let		DATE SI			7/10	
REVISED (	03/2008						·	U						

PROJECT NAME:	LE Carp	penter					PRE	PARED			Ch	HECKE	D	
PROJECT NUMBER:	01545.4	11.001			В	<b>Y</b>	SP	DATE:	3/2/1	BY:	Se	DA	TE: 9 29	10
sample id: ქს.	-12-3			WEL			ER: 🗸 2"	4"		✓ OTH	11/1/			
WELL MATERIAL:	PVC [	ss		ON	☐ G/	ALVA	NIZED ST	EEL		✓ OTH	HER N/A			
SAMPLE TYPE:	] GW [	] ww	✓ sv	٧		l 	LE	ACHATE	<u> </u>	П ОТН	HER			
	IME:		DATE	:				ЛPLE :		ME: 08			9/9/10	
METHOD:	UMP AILER				_/		PH: ORP:				CTIVITY:		umhoe	√cm
DEPTH TO WATER: _		T/ PVC	$\overline{}$				TURBIDIT	ΓΥ:		NTU				
DEPTH TO BOTTOM:_		T/ PVC					☐ NONE		SLIGH	т 🗌	MODERA	ſĒ	UERY	
WELL VOLUME: _		LITERS		GAL	LONS	3	TEMPERA	ATURE:		°C	OTHER:			
VOLUME REMOVED:_	[	LITERS		GAL	LONS	3	COLOR:			_/	ODOR:		-	
COLOR:			ODOR	:			FILTRATE	(0.45 ur	n)	YES	✓ NO			
	TURB						FILTRATE	COLOR:			FILTRATE	ODOR:		
□ NOME □ SLIG	нт 🔲 и	MODERATE	•		VERY	•	QC SAME	E:	MS/MS	SD	DUP-			
ØISPOSAL METHOD:	GROUN	D 🗌 DRU	JM 🔲	OTH	HER		COMMEN	ITS:			· · · · · · · · · · · · · · · · · · ·			$\neg$
TIME PURGE RATE (ML/MIN)	PH (SU)	VITЭUQNOЭ nə/eorlmu)		OF (m)	Hite.			URBIDIT (NTU)	Υ	emperati (°C)	JRE LEV (FE	ŒL PL	CUMULATIN JRGE VOLL (GAL OR L	JME .)
													INITIAL	
		*****				+								
						+-		/						
						-								
						-								
									-					
													,	
NOTE: STABILIZ	ATION TE	ST IS COM	PI FTF	- WH	EN 3	SUC	CESSIVE I	PEADING	S APE	WITHIN	THE FOLL	OWING	I IMITS:	
	OND.: +/-		RP: +/-			0.0.:		TURB:			=</td <td></td> <td>MP.: +/-</td> <td></td>		MP.: +/-	
BOTTLES FILLED. P	RESERVA	TIVE CODE	<u>ES</u> A-	NOI	NE	В-	HNO3	C - H25	604	D - NaOl	H E	- HCL	F	7
NUMBER SIZE	TYPE	PRESERV	ATIVE	FI	LTER	ED	NUMBER	SIZE		TYPE	PRESER	VATIVE	FILTER	ĒD
2 40 mL	VOA	E			Y	] N								] N
					Y [	] N							□Y □	N
					Υ	N								N
					Y	N								l N
					Y [	] N							Y	] N
SHIPPING METHOD:	PFO	EV	DATE			: '	gla Lo			AIRBILL	NUMBER:	8619		
COC NUMBER:	NA	· , , , , , , , , , , , , , , , , , , ,	SIGNA			~	law	1.L.		DATE SI		4	19/10	== '
REVISED 03/2008	~4		J. J. 14/		· · · · · · · · · · · · · · · · · · ·		), /w	<del>}</del>		DATE OF		7	400	

PROJECT	NAME:	LE Ca	rpenter					PRE	PARED				CHEC	KED	
PROJECT	NUMBER	l: 01545	.41.001			В	Y	SP	DATE: 9/	4/10	BY:	Ac.	>	DATE: 9	29/10
SAMPLE	D: 50	12-0			WELI	_ DI/	MET	ΓER: 🗸 2"	4"	6"	✓ OTH	ER N/	Α		
WELL MAT	ERIAL:	PVC	SS	☐ IRO	DN [	G	ALVA	ANIZED ST	EEL		<b>⊘</b> отн				
SAMPLE T	AMPLE TYPE: GW WW SW DI LEACHATE OTHER														
PURC	SING	TIME:		DATE	:			SAI	VPLE :	TIN	1E: 08	55	DA	TE: 9/9	[10
PURGE		PUMP				/	/	PH:		su	CONDUC	CTIVITY	·	um	nhos/cm
METHOD	):	BAILER			/	_		ORP:		mV	DO:		mg/	/L	
DEPTH TO	WATER:		T/ PVC	$\overline{}$				TURBIDI	TY:		NTU				
DEPTH TO	воттом:		T/ PVC					☐ NONE	:	LIGHT		MODE	ATE	U VE	RY
WELL VOL	UME:		LITERS		GALI	ON	s	TEMPERA	ATURE:		°c	ØTHER			
VOLUME F	REMOVED:	_/_	LITERS		GALI	ON	s	COLOR:			. /	ODOR:			
COLOR:				ODOR	:			FILTRATE	(0.45 um)		YES	✓ NO	)		
	$\overline{/}$	TURI	BIDITY					FILTRATE	COLØR:			FILTRA	TE ODO		
NOME	SLI	GHT 🗌	MODERATI	Ε	□ v	ΈRነ	′	QC SAM	LE: M	S/MSI	D	☐ DU	P		
DISPOSAL	METHOD:	GROU	ND DR	UM 🗌	отн	ER		COMMEN	NTS:			***			
TIME	PURGE RATE	PH	CONDUCTIV	(ITY	ORI	<b>)</b>		D.O. 7	TURBIDITY	TE	MPERATU		ATER EVEL	CUMULA PURGEV	
	(ML/MIN)	(SU)	(umhos/cr	n)	(mV	)	(	mg/L)	(NTU)		(°C)	1000	FEET):	(GAL C	
														INITA	AL
				******											
				-			+		/						
							$\bot$							<del></del>	•
							1								
NO	FF. STABIL	IZATION T	EST IS CON	•DI ETE	- \4/1 15		0110	05001/5		455	\		. 0.400		
pH: +/-		COND.: +/-					D.O.:		TURB: +/			=</td <td></td> <td>TEMP.: +/-</td> <td></td>		TEMP.: +/-	
Bounte	AFIHED?	PRESERV	ATIVE COD	ES A-	NON	E	В-	HNO3	C - H2SO	4	D - NaO⊦	ł	E - HCI	L F	
NUMBER	SIZE	TYPE	PRESERV	ATIVE	FIL	TER	ED	NUMBER	SIZE	T -	TYPE	PRES	ERVATI	VE FILT	ERED
2	40 mL	VOA	E		□ Y	. [2	N							□ Y	□ N
					□Y	.	] N							П	□ N
				101	T	,	N			-					N
					·	- -	] N			-				□ . □ Y	N
						-	_			-					
					<u> </u>	╚	N							Y	U N
SHIPPING	SHIPPING METHOD: FROKY DATE SHIPPED: 92/16 AIRBILL NUMBER: 869 9586 708														
COC NUME		<u>_ \n\</u>		SIGNA	ATURI	Ξ:	<u>~</u>	· lan	Mi		DATE SIG	ENED:		9/9/10	>
REVISED (	03/2008														

## BMT

PROJECT	NAME:	LE Car	penter				PREF	ARED			CH	HECKED	
PROJECT	NUMBER	R: 01545.	41.001		E	3Y	SP	DATE:	9/10	BY:	90	DAT	E:92910
SAMPLE I WELL MATI SAMPLE TY	ERIAL:	] D _€	(	☐ IRO	ON []		ANIZED STI	4" EEL		<ul><li>✓ ОТН</li><li>✓ ОТН</li><li>✓ ОТН</li></ul>	ER N/A		
PURG	ang	TIME:		DATE:			SAN	/PLE	TIME	E: 091	05	DATE:	9/9/10
PURGE		PUMP		1		$\overline{}$			-		TIVITY:		
METHOD		BAILER			$\angle$		ORP:	n					_/
DEPTH TO	WATER:		T/ PVC	$\angle$			TURBIDIT	TY:	N	ITU			
DEPTH TO	BOTTOM		T/ PVC				☐ NONE	SL	IGHT		MODERA1	É [	VERY
WELL VOL	JME:		LITERS		GALLON		TEMPERA	TURE:		_℃	OTHER:		
VOLUME R	EMOVED:	$-\!\!\!\!/-$	LITERS		GALLON	NS	COLOR:		<u> </u>		ODOR:		
COLOR:				ODOR:			FILTRATE	(0.45 um)	<u> </u>	'ES	☑ NO		
			BIDITY				FILTRATE				FILTRATE		
☐ NOME ØISPOSAL			MODERAT		VER		QC SAME	LE: MS	S/MSD	)	DUP-	01	
BISPOSAL	PURGE	Manufacuni serioseira da la	ND DR	UM 🗌	OTHER	eos dens	COMMEN	115:	o sometiment line			Personalism transference	
TIME	RATE (ML/MIN)	PH (SU)	CONDUCTN (umhos/cr		ORP (mV)			URBIDITY		(°C)	LEV	EL PU	UMULATIVE RGE VOLUME (GAL OR L) INITIAL
						_		/	_				
									-				
						4							
						-			-	v			
NOT	E: STABIL	IZATION T	EST IS COM	VIPLETE	WHEN	3 SUC	CESSIVE F	READINGS	ARE V	NITHIN 1	THE FOLL	OWING L	MITS:
pH: +/-	C	COND.: +/-	0	RP: +/-		D.O.:	+/-	TURB: +/-		or	=</td <td>TEM</td> <td>P.: +/-</td>	TEM	P.: +/-
BOTTLES	FILLED	PRESERV	ATIVE COD	ES A-	NONE	В-	HNO3	C - H2SO4	4 C	) - NaOH	l E	- HCL	F
NUMBER	SIZE	TYPE	PRESERV	/ATIVE	FILTE	RED	NUMBER	SIZE	Т	YPE	PRESER	VATIVE	FILTERED
4%	40 mL	VOA	E			√ N							YN
					_ Y								□ Y □ N
						N							□ Y □ N
					□ Y [	N							□ Y □ N
					□ Y [	N							Y   N
SHIPPING	METHOD:	FEO	EX	DATE	SHIPPE	D:	9/2/10	)	A	NRBILL N	NUMBER: ¿	8619 9	586 2017
COC NUME	BER:	AU		SIGNA	TURE:	3	. law	A /	-+	DATE SIG		9/0	2/10
DEVISED (	0.0000			<del></del>				-					

FO 10.11 10.41 VIOLET 10.51	3 2 10 311 41													
PROJECT N	AME:	LE Ca	rpenter				PRE	PARED			(	CHECK	ED.	
PROJECT N	UMBER	: 01545	.41.001			вү	SP	DATE:	9/9	IO BY:	40	D	ATE:9/2	9/10
AMPLE ID	· 50	الا	6		WELL D	DIAMET	ER: 🗸 2	." 4"	<u> </u>	✓ OTH	ER N//			<b>.</b>
VELL MATER		PVC	ss	☐ IRC	ON 🗌	GALVA	NIZED S	TEEL		✓ отн	ER N/	Α		
SAMPLE TYP	E: [	☐ GW	□ww	☑ sw	<b>/</b>	DI	LI	EACHATE		ОТН	ER			
PURGI	vĠ.	TIME:		DATE:			SA	MPLE	TI	ME: 09	30	DAT	E: 9/9	10
PURGE	I	PUMP					PH: _		SU	CONDUC	CTIVITY:		umb	108/cm
METHOD:	<u></u>	BAILER			$\angle$		ORP: _		_ mV	DO:		mg/L		
DEPTH TO V	VATER: _		T/ PVC				TURBID	ITY:		NTU				
БЕРТН ТО В	OTTOM:		T/ PVC				□ мом	E 🗌	SLIGH	т 🗌	MODER	ATE	VEF	RY
VELL VOLUN	ΛE:		LITERS		GALLO	ŃS	TEMPER	ATURE:		°C	ØTHER	: <u></u>		
VOLUME RE	MOVED:		LITERS		GALLO	NS	COLOR:			-/	ODOR:			
COLOR:				ODOR:	:		FILTRAT	E (0.45 ui	m) _	YES	√ NO			
		TUR	BIDITY				FILTRATE	E COLOR:			FILTRA	TE ODOR	<b>:</b>	
NOME	SLIC		MODERATI	Ξ	VEI	RY	QC SAM		MS/MS	SD	DU	•••	***************************************	
DISPOSAL N	/ETHOD:	GROU	ND DR	JM 🗌	OTHER	₹	COMME	NTS:				· · · · · · · · · · · · · · · · · · ·		
	PURGE										Iw	ATER	CUMULA	TIVE
TIME	RATE .	PH ·	CONDUCTION		ORP		ACCIDENT.	TURBIDIT	10.	EMPERATU	IKE   L	EVEL	PURGE VC	LUME
(1	ML/MIN)	(SU)	(umhos/cr	1)	(mV)	(	mg/L)	(NTU)		(°C)	(1	EET)	(GAL O	
									-				INITIA	ſ <u>Γ</u>
														**
						-								
NOTE	· STARII	IZATION T	EST IS COM	ADI ETE	WHEN	13 5110	CESSIVE	READING	GS ARI	E WITHIN	THE FOI	LOWING	· PTIMITS:	
pH: +/-		OND.: +/-		RP: +/-		D.O.:		TURB:			=</td <td></td> <td>EMP.: +/-</td> <td></td>		EMP.: +/-	
	III O CONTROL MANAGEMENT	· · · · · · · · · · · · · · · · · · ·								<del></del>				
BOTTLEST			ATIVE COD				- HNO3	C - H2	SO4	D - NaOl		E - HCL		
NUMBER	SIZE	TYPE	PRESERV	ATIVE	FILT	ERED	NUMBE	R SIZI	E L	TYPE	PRESE	ERVATIV	E FILTE	RED
2	40 mL	VOA	E			☑ N							□ Y	
					□ Y	□N							□ Y	□N
					□ Y							·	Y	
					ΠY	□ _N			-				□ Y	
					□ Y	N					1			
					<u> </u>		1 1				<u> </u>		اليال	
SHIPPING M	ETHOD:	FEOL	< <u> </u>	DATE	SHIPPE	ED:	9/9/1	D		AIRBILL	NUMBER	R: 8 <u>619</u>	9586	<u> 2c</u>
COC NUMBE	R:	NA		SIGNA	ATURE:	~	12.0	14 4.		DATE SI	GNED.	5/	7/m	

PROJECT NAME: L	E Carpenter	S Control		PREP	ARED		CHI	ECKED
PROJECT NUMBER: (	01545.41.001	В	Υ	SP	DATE: $q/q$	Lo BY:	00	DATE: 9/29/10
	PVC SS		ALVA	NIZED STE	4" (	THTO □ "6 ■ OTHE □ OTHE	ER N/A	
PURGING TIM	E:	DATE:		SAM	PLE	TIME: 09	us I	DATE: 9/9/10
PURGE PUN METHOD: BAIL					SL m\	CONDUC	TIVITY:	umhos/cm mg/L
DEPTH TO WATER:	T/ PVC			TURBIDIT	Y:			
DEPTH TO BOTTOM:				NONE	SLIG		MODERATE	E ☐ VERY
WELL VOLUME:	LITERS			TEMPERAT	TURE:	°C	OTHER:	
VOLUME REMOVED:	LITERS			COLOR:			ODOR:	
COLOR:		ODOR:		FILTRATE	(0.45 um)	YES	✓ NO	
	TURBIDITY			FILTRATE C			FILTRATE C	DDOR:
□ NOME □ SLIGHT			Y		(E: MS/I	MSD 	DUP-	
ØSPOSAL METHOD: ☐ (	GROUND DRI	JM OTHER		COMMEN.	TS:		w. <del> </del>	
I KAIE I	PH CONDUCTIVE (umbos/cr			D.O. TI	(NTU)	(°C)	LEVE	L PURGE VOLUME
NOTE: STABILIZATE PH: +/- CON			D.O.:		TURB: +/-	RE WITHIN T		WING LIMITS: TEMP.: +/-
BOTTLES FILLED PRE	SERVATIVE COD	ES A - NONE	В-	HNO3	C - H2SO4	D - NaOH	E -	HCL F
NUMBER SIZE T	YPE PRESERV	ATIVE FILTER	RED	NUMBER	SIZE	TYPE	PRESERV	ATIVE FILTERED
2 40 mL \	/OA E	□ Y [	N \					□ Y □ N □ Y □ N
		Y   L	N   N   N					Y
SHIPPING METHOD:	EOKY	DATE SHIPPEI	D:	9/9/10		AIRBILL	NUMBER: \$	रक्षा १८४४ टामः
COC NUMBER:  REVISED 03/2008	NA	SIGNATURE:	3	Parel	lety	DATE SIG		9/9/10

PROJECT NAME:	LE Car	penter			PREP	ARED		СН	ECKED	
PROJECT NUMBER:	01545.	41.001		BY	SP	DATE: 9	2/10 BY:	90	DATE: 9/29/1	0
SAMPLE ID: ろん	Assessment of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Con	ALICE STREET, SECTION AND ADDRESS OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTUAL PROPERTY OF THE ACTU			ER: 🗸 2"		6" ✓ OTH	11//		
WELL MATERIAL:	PVC	SS	IRON _		NIZED STE		∨ отн	11/7		_
SAMPLE TYPE:	] GW	□ ww	✓ SW _	DI	In the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	ACHATE	ОТН	EK		ᆗ
PURGING	TIME:		DATE:		SAN	IPLE	TIME: O	150	DATE: 9/9/10	,
1	PUMP				PH:	SI	U CONDUC	CTIVITY:	umhos/	ćm
METHOD:	BAILER			-	ORP:	m	V DO:		mg/L	
DEPTH TO WATER:		T/ PVC			TURBIDIT	Y:	NTU			ı
DEPTH TO BOTTOM:		T/ PVC			NONE	SLI	GHT	MODERAT	É UERY	
WELL VOLUME:		LITERS	GALLO	ONS	TEMPERA	TURE:	°℃	OTHER:		_
VOLUME REMOVED:		LITERS	GALLO	ONS	COLOR:		_/_	ODOR:		
COLOR:			ODOR:		FILTRATE	(0.45 um)	YES	✓ NO		
	TURE	BIDITY			FILTRATE (			FILTRATE	ODOR:	
□ NOME □ SLIC	ЭНТ	MODERATE	_ VE	RY	QC SAMP	LE: MS	/MSD	DUP-		
DISPOSAL METHOD	GROUN	ID 🗌 DRU	JM 🗌 OTHE	R	COMMEN	TS:				
TIME PURGE RATE (ML/MIN)	PIL (SU)	CONDUCTIV			D.O. T	URBIDITY (NTU)	TEMPERATU	LEV	EL PURGE VOLUM	ME
									INITIAL	
										l
										$\dashv$
			$\overline{}$							
NOTE: STABIL	IZATION TI	EST IS CON	IPLETE WHE	N 3 SUC	CESSIVE F	READINGS A	ARE WITHIN	THE FOLLO	OWING LIMITS:	
pH: +/- C	OND.: +/-	0	RP: +/-	D.O.:	+/-	TURB: +/-	or	=</td <td>TEMP.: +/-</td> <td></td>	TEMP.: +/-	
BOTTLES FILLED	PRESERV	ATIVE COD	ES A - NONE	В-	HNO3	C - H2SO4	D - NaOl	H E	- HCL F	
NUMBER SIZE	TYPE	PRESERV	ATIVE FILT	ERED	NUMBER	SIZE	TYPE	PRESER	VATIVE FILTERE	:D
40 mL	VOA	E	□ Y	☑ N					□ Y □	N
			□ Y	□ N						N
			□ Y	□ N						N
				□ N		<b> </b>				N
										N
SHIPPING METHOD:	FEOF	<u> </u>	DATE SHIPP		9/9/10	<u> </u>	ΔΙΡΩΙΙΙ	NI IMRED	8617 9586 Zo	
		<u></u>			<u> </u>					1+
COC NUMBER: REVISED 03/2008	<u>NA</u>		SIGNATURE	: 5	Yand	my-	DATE SI	GNED:	9/9/10	

## BMT

PROJECT NAME:	LE Ca	rpenter				PRE	PARED				CHE			
PROJECT NUMBER	R: 01545	.41.001			вү	SP	DATE: 9	1/2/1	BY:	C	w	DAT	E:9/20	1/10
SAMPLE ID: 500						ER: 🗸 2		6"	✓ OTH		N/A			
WELL MATERIAL:	PVC	SS [	IRO			NIZED ST			✓ OTH		N/A			,
SAMPLE TYPE:	☐ GW	☐ WW [	✓ sw	لــا	DI		EACHATE		∐ ОТН	ER				
PURGING	TIME:		DATE:				MPLE		IE: [OC			ATE:	1 0111	
PURGE	PUMP BAILER									CTIVI	TY:m	g/L	_ umho	os/cm
DEPTH TO WATER:		T/ PVC	$\overline{}$	<del></del>		TURBIDI	ITY:		NTU			/		
DEPTH TO BOTTOM		T/ PVC				☐ NONE	≣ 🗌 s	LIGHT		MOE	DERATE	[	VER	Y
WELL VOLUME:		LITERS		GALLO	ONS	TEMPER	ATURE: _		°C	ØTH	IER: _			
VOLUME REMOVED:	:_/	LITERS		GALLO	ONS	COLOR:				ODC	DR: _			
COLOR:			ODOR:			FILTRAT	E (0.45 um)		YES	V	NO			
	TURI	BIDITY				FILTRATE	COLØR: _			FILT	RATE OD	OR:		
□NONE □ SLI	IGHT 🗌	MODERATE	<b>:</b> [	VE	RY	QC SAM	IPCE: 🗌 N	/IS/MS	D		DUP-			
DISPOSAL METHOD	: GROU	ND 🗌 DRU	W 🗌	OTHE	R	COMME	NTS:							
TIME PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIV		ORP		D.O. mg/L)	TURBIDITY (NTU)		MPERATU (°C)	ire :	WATER LEVEL (FEET)	PUF	UMULAT RGE VOL (GAL OR	UME
	(90)	in (atmessar		e Utayla							(! ==!)		INITIAL	
										-				-
										_		_		
				<del></del>	-				/		•			
								1						
	<u> </u>													
								-						
							т-					+		
												L		
NOTE: STABII	LIZATION T COND.: +/-		IPLETE RP: +/-	WHEN		+/-	TURB: +			THE =</td <td></td> <td></td> <td>IMITS: IP.: +/-</td> <td></td>			IMITS: IP.: +/-	
BOTTLESFILLED	PRESERV	ATIVE CODE	<u>ES</u> A - 1	NONE	В-	HNO3	C - H2S0	 O4	D - NaOl	1	E-H	CL	F	
NUMBER SIZE	TYPE	PRESERV	ATIVE	FILT	ERED	NUMBE	R SIZE		TYPE	PR	ESERVA ⁻	TIVE	FILTER	RED
2 40 mL	VOA	Е	<u> </u>	ΠY	✓ N			+			-		ΠΥΓ	N
					N									N
			1	□ _Y	N	-								= '`   
			] 									 		= -
					□ N	<b> </b>		-						_ N
				Y	N								<u> </u>	_ N
SHIPPING METHOD:	FRO	EY_	DATE S	SHIPP	ED:	7/2/10		_	AIRBILL I	NUM	BER: SY	199	1586	<u> 209</u>
COC NUMBER:	NA		SIGNA	TURE:	<	12	Il.L	,	DATE SIG	GNF	D:	9	19/10	>

PROJECT NAME: LE (	Carpenter			PREF	ARED			CH	EOKE		
PROJECT NUMBER: 015	45.41.001		ву	SP	DATE:	9/9/	(U BY:	do	DAT	E:9/	29/10
SAMPLE ID: 78-0		WELL	DIAMET	ER: 🗸 2"	4"	<u> </u>	✓ ОТН	ER N/A			
WELL MATERIAL: PVC	ss [	] IRON [	GALVA	NIZED ST	EEL		✓ OTH	ER N/A			
SAMPLE TYPE: GW	□ww <del>- [</del>	<del>] sw.</del> 🔀	DI	LE	ACHATE		□ отн	ER			
PURGING TIME:		DATE:		SAN	MPLE :	TIN	NE: (07	<i>70</i>	DATE:	9/9	10
PURGE PUMP METHOD: DAMES	<u></u>			PH:				CTIVITY:		um	hos/cm
BAILER		$-\!\!\!/\!\!-$		ORP:			DO:		mg/L	_	
DEPTH TO WATER: DEPTH TO BOTTOM:				TURBIDIT		 SLIGH1	NTU	MODERAT	E	□ VE	RY
WELL VOLUME:	LITERS	GALLO	ONS	TEMPERA				ØTHER:			
VOLUME REMOVED:	LITERS	GALLO	<del></del>	COLOR:				ODOR:			
COLOR:		DOR:		FILTRATE	(0.45.um	, _Г	YES	✓ NO			
		DUN				<u>'/                                    </u>	IEO				
TU   NOME   SLIGHT	JRBIDITY  MODERATE	∏ VE	RY.	GC SAMP		MC/MC	n	FILTRATE DUP-	ODOR:		
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In executing this agreement, the client acknowledges acceptance of the terms of the agreement as listed on the reverse side.

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In executing this agreement, the client acknowledges acceptance of the terms of the agreement as listed on the reverse side.

# Appendix B 3rd Quarter 2010 Laboratory Analytical Report



231.773.5998 800.733.5998 231.773.6537 Trace Analytical Laboratories, Inc. 2241 Black Creek Road Muskegon, MI 49444-2673 info@trace-labs.com www.trace-labs.com

September 10, 2010

Ms. Jennifer Overvoorde RMT, Inc. 2025 E. Beltline Ave. SE Suite 402 Grand Rapids, MI 49546

Phone: (616) 975-5415 Fax: (616) 975-1098

RE: Trace Project T10H296

Client Project LEC Monitoring / 01545.41.001

Dear Ms. Overvoorde:

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

For clients that require NELAC Accreditation, Trace certifies that these test results meet all requirements of the NELAC Standard, except for those analytes with a "N" notation. These analytes have not been evaluated by NELAC at Trace's discretion and will not be reported unless requested by client.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,

Jon Mink Project Manager

**Enclosures** 





phone 231.773.5998 toll-free 800.733.5998 231.773.6537

Trace Analytical Laboratories, Inc. 2241 Black Creek Road Muskegon, MI 49444-2673 info@trace-labs.com www.trace-labs.com

#### **SAMPLE SUMMARY**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
T10H296-01	DRC-02	Surface Water	sp	08/23/10 12:38	08/25/10 10:54
T10H296-02	SW-D-5	Surface Water	sp	08/23/10 12:45	08/25/10 10:54
T10H296-03	SW-R-1	Surface Water	sp	08/23/10 13:15	08/25/10 10:54
T10H296-04	SW-R-2	Surface Water	sp	08/23/10 13:25	08/25/10 10:54
T10H296-05	SW-R-3	Surface Water	sp	08/23/10 13:35	08/25/10 10:54
T10H296-06	SW-R-4	Surface Water	sp	08/23/10 13:45	08/25/10 10:54
T10H296-07	SW-D-4	Surface Water	sp	08/23/10 14:00	08/25/10 10:54
T10H296-08	SW-R-6	Surface Water	sp	08/23/10 14:30	08/25/10 10:54
T10H296-09	SW-D-3	Surface Water	sp	08/23/10 15:00	08/25/10 10:54
T10H296-10	SW-D-2	Surface Water	sp	08/23/10 15:10	08/25/10 10:54
T10H296-11	SW-D-1	Surface Water	sp	08/23/10 15:20	08/25/10 10:54
T10H296-12	DUP-01	Surface Water	sp	08/23/10	08/25/10 10:54
T10H296-13	MW-19-12	Surface Water	sp	08/24/10 07:40	08/25/10 10:54
T10H296-14	MW-29S	Ground Water	sp	08/24/10 09:07	08/25/10 10:54
T10H296-15	MW-30D	Ground Water	sp	08/24/10 11:08	08/25/10 10:54
T10H296-16	MW-30I	Ground Water	sp	08/24/10 12:37	08/25/10 10:54
T10H296-17	MW-30S	Ground Water	sp	08/24/10 14:14	08/25/10 10:54
T10H296-18	ATM-01	Ground Water	sp	08/24/10 14:40	08/25/10 10:54
T10H296-19	MW-8	Ground Water	sp	08/24/10 15:31	08/25/10 10:54
T10H296-20	MW-27S	Ground Water	sp	08/24/10 16:30	08/25/10 10:54
Г10Н296-21	TB-01	Surface Water	sp	08/16/10	08/25/10 10:54
T10H296-22	MW-27S	Ground Water	sp	08/25/10 06:50	08/26/10 10:36
T10H296-23	MW-25 (R)	Ground Water	sp	08/25/10 08:57	08/26/10 10:36
T10H296-24	MW-35S	Ground Water	sp	08/25/10 10:30	08/26/10 10:36
T10H296-25	MW-34S	Surface Water	sp	08/25/10 11:00	08/26/10 10:36
T10H296-26	MW-33S	Ground Water	sp	08/25/10 11:25	08/26/10 10:36
Г10Н296-27	MW-31S	Ground Water	sp	08/25/10 12:10	08/26/10 10:36
T10H296-28	MW-32S	Ground Water	sp	08/25/10 12:35	08/26/10 10:36
Г10Н296-29	MW-28I	Ground Water	sp	08/25/10 14:10	08/26/10 10:36
Г10Н296-30	MW-28S	Ground Water	sp	08/25/10 15:09	08/26/10 10:36
Г10Н296-31	MW-34S	Ground Water	sp	08/25/10 16:15	08/26/10 10:36
Г10Н296-32	RB-01	Surface Water	sp	08/25/10 16:55	08/26/10 10:36
T10H296-33	RB-02	Ground Water	sp	08/25/10 17:05	08/26/10 10:36
T10H296-34	Dup-02	Ground Water	sp	08/25/10	08/26/10 10:36
T10H296-35	MW-32s	Ground Water	sp	08/26/10 08:40	08/27/10 10:37
T10H296-36	MW-34s	Ground Water	sp	08/26/10 08:50	08/27/10 10:37

#### **CERTIFICATE OF ANALYSIS**

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#### AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT

#### **DEFINITIONS**

LCS Laboratory Control Sample

LCSD Laboratory Control Sample Duplicate

MS Matrix Spike

MSD Matrix Spike Duplicate
RPD Relative Percent Difference

DUP Matrix Duplicate

RDL Reporting Detection Limit
MCL Maximum Contamination Limit
TIC Tentatively Identified Compound

<, ND or U Indicates the compound was analyzed for but not detected

* Indicates a result that exceeds its associated MCL or Surrogate control limits

N Indicates that the compound has not been evaluated by NELAC

NA Indicates that the compound is not available.

#### **DATA QUALIFIERS**

Trace ID: T10H296-01	
Analysis: EPA 8260B	Note 506: The sample result and reporting limit must be considered estimated. The analysis was performed beyond the EPA established 14-day hold time.
Trace ID: T10H296-02  Analysis: EPA 8260B	
,, yo.o. 21 / 1 02002	Note 506: The sample result and reporting limit must be considered estimated. The analysis was performed beyond the EPA established 14-day hold time.
Trace ID: T10H296-03  Analysis: EPA 8260B	
	Note 506: The sample result and reporting limit must be considered estimated. The analysis was performed beyond the EPA established 14-day hold time.
Trace ID: T10H296-04 <i>Analysis: EPA 8260B</i>	
	Note 506: The sample result and reporting limit must be considered estimated. The analysis was performed beyond the EPA established 14-day hold time.
Trace ID: T10H296-05  Analysis: EPA 8260B	
	Note 506: The sample result and reporting limit must be considered estimated. The analysis was performed beyond the EPA established 14-day hold time.
Trace ID: T10H296-06  Analysis: EPA 8260B	
	Note 506: The sample result and reporting limit must be considered estimated. The analysis was performed beyond the EPA established 14-day hold time.

Trace ID: T10H296-07 *Analysis: EPA 8260B* 

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	Note 506: The sample result and reporting limit must be considered estimated. The analysis was performed beyond the EPA established 14-day hold time.
Trace ID: T10H296-08	,
Analysis: EPA 8260B	
Analysis. El A sesse	Note 506: The sample result and reporting limit must be considered estimated. The
	analysis was performed beyond the EPA established 14-day hold time.
Trace ID: T10H296-09	
Analysis: EPA 8260B	
	Note 506: The sample result and reporting limit must be considered estimated. The analysis was performed beyond the EPA established 14-day hold time.
Trace ID: T10H296-10	
Analysis: EPA 8260B	
	Note 506: The sample result and reporting limit must be considered estimated. The analysis was performed beyond the EPA established 14-day hold time.
Trace ID: T10H296-11	
Analysis: EPA 8260B	
	Note 506: The sample result and reporting limit must be considered estimated. The
	analysis was performed beyond the EPA established 14-day hold time.
Analysis: EPA 8270C	
	Note 407: The reporting limit was raised due to a post extraction dilution required based on matrix interference present in the sample.
Trace ID: T10H296-12	
Analysis: EPA 8260B	
	Note 506: The sample result and reporting limit must be considered estimated. The analysis was performed beyond the EPA established 14-day hold time.
Trace ID: T10H296-17	
Analysis: EPA 8270C	
2-Fluorobiphenyl	Note 314: The surrogate was out of control low when compared to the control limits.  All results and reporting limits must be considered estimated.
Nitrobenzene-d5	Note 314: The surrogate was out of control low when compared to the control limits.  All results and reporting limits must be considered estimated.
	· · · ·
Terphenyl-d14	Note 314: The surrogate was out of control low when compared to the control limits. All results and reporting limits must be considered estimated.
Trace ID: T10H296-26	
Analysis: EPA 8270C	
Nitrobenzene-d5	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Trace ID: T10H296-27	
Analysis: EPA 8270C	
2-Fluorobiphenyl	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Analysis: SM9215B	
Heterotrophic Plate Count	Note 702: All plates had greater than the method recommended number of colonies. The result must be considered estimated.

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Heterotrophic Plate Count	Note F-02: > 30,000
Trace ID: T10H296-28	
Analysis: EPA 8270C	
2-Fluorobiphenyl	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Nitrobenzene-d5	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Terphenyl-d14	Note 302: A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Trace ID: T10H296-31	
Analysis: SM9215B	
Heterotrophic Plate Count	Note 702: All plates had greater than the method recommended number of colonies. The result must be considered estimated.
Heterotrophic Plate Count	Note 709: The growth of spreaders exceeded 50% of the plate area, thus preventing a count of colonies.
Heterotrophic Plate Count	Note F-02: > 30,000



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-01 Date Collected: 08/23/10 12:38 Matrix: Surface Water Sample ID: DRC-02 Date Received: 08/25/10 10:54 **PARAMETERS RESULTS UNITS** RDL DILUTION **PREPARED** BY ANALYZED BY **NOTES** MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** 506 Analysis Method: EPA 8260B Batch: T018460 09/07/10 Benzene <0.50 ug/L 0.50 1 gmr 09/07/10 gmr Toluene <0.50 ug/L 0.50 1 09/07/10 gmr 09/07/10 gmr Ethylbenzene <0.50 ug/L 0.50 1 09/07/10 gmr 09/07/10 gmr m,p-Xylene <1.0 ug/L 1.0 1 09/07/10 gmr 09/07/10 gmr Ν <0.50 ug/L 09/07/10 09/07/10 o-Xylene Ν 0.50 1 gmr gmr Xylenes, total <1.5 ug/L 1 09/07/10 09/07/10 1.5 gmr gmr Surrogates: 101 % 1,2-Dichloroethane-d4 70-133 09/07/10 gmr 09/07/10 gmr 109 % Toluene-d8 76-125 09/07/10 gmr 09/07/10 gmr SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS Analysis Method: EPA 8270C Batch: T018295 08/26/10 Bis(2-ethylhexyl)phthalate <0.98 ug/L 0.98 kb 08/27/10 gmr Surrogates: 50 % 36-103 Nitrobenzene-d5 1 08/26/10 kb 08/27/10 gmr 54 % 2-Fluorobiphenyl 36-119 1 08/26/10 kb 08/27/10 gmr 61 % Terphenyl-d14 37-109 08/26/10 1 kb 08/27/10 gmr



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-02 Date Collected: 08/23/10 12:45 Matrix: Surface Water

Sample ID: SW-D-5 Date Received: 08/25/10 10:54 **RESULTS UNITS PARAMETERS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** 506 Analysis Method: EPA 8260B Batch: T018460 <0.50 ug/L 09/07/10 Benzene 0.50 1 gmr 09/07/10 gmr Toluene <0.50 ug/L 0.50 1 09/07/10 gmr 09/07/10 gmr Ethylbenzene <0.50 ug/L 09/07/10 0.50 1 gmr 09/07/10 gmr m,p-Xylene <1.0 ug/L 1.0 1 09/07/10 gmr 09/07/10 gmr Ν <0.50 ug/L 09/07/10 09/07/10 o-Xylene Ν 0.50 1 gmr gmr Xylenes, total <1.5 ug/L 1 09/07/10 09/07/10 1.5 gmr gmr Surrogates: 100 % 1,2-Dichloroethane-d4 70-133 1 09/07/10 gmr 09/07/10 gmr 109 % Toluene-d8 76-125 09/07/10 gmr 09/07/10 gmr

#### SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T018295

Bis(2-ethylhexyl)phthalate	4.6 ug/L	0.95	1	08/26/10	kb	08/27/10	gmr
Surrogates:							
Nitrobenzene-d5	64 %	36-103	1	08/26/10	kb	08/27/10	gmr
2-Fluorobiphenyl	62 %	36-119	1	08/26/10	kb	08/27/10	gmr
Terphenyl-d14	69 %	37-109	1	08/26/10	kb	08/27/10	gmr



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

race ID: T10H296-03 sample ID: SW-R-1			Collected: Received:	08/23/10 13: 08/25/10 10:		Matrix:	Surface	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	МС
OLATILE ORGANIC COMPOUNDS	S BY GC-MS							506	
Analysis Method: EPA 8260B									
Batch: T018460									
Benzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Toluene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Ethylbenzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
m,p-Xylene	<1.0 ug/L	1.0	1	09/07/10	gmr	09/07/10	gmr	N	
o-Xylene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/07/10	gmr	09/07/10	gmr		
Surrogates:									
1,2-Dichloroethane-d4	99 %	70-133	1	09/07/10	gmr	09/07/10	gmr		
Toluene-d8	109 %	76-125	1	09/07/10	gmr	09/07/10	gmr		
SEMI-VOLATILE ORGANIC COMPO	DUNDS BY GC-MS								
Analysis Method: EPA 8270C									
Batch: T018295									
Bis(2-ethylhexyl)phthalate	<0.95 ug/L	0.95	1	08/26/10	kb	08/27/10	gmr		
Surrogates:									
Nitrobenzene-d5	63 %	36-103	1	08/26/10	kb	08/27/10	gmr		
2-Fluorobiphenyl	63 %	36-119	1	08/26/10	kb	08/27/10	gmr		
Terphenyl-d14	76 %	37-109	1	08/26/10	kb	08/27/10	gmr		



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Tace ID: T10H296-04 Sample ID: SW-R-2			Collected: Received:	08/23/10 13:: 08/25/10 10::		Matrix:	Surface	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MC
OLATILE ORGANIC COMPOUNDS	S BY GC-MS							506	
Analysis Method: EPA 8260B									
Batch: T018460									
Benzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Toluene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Ethylbenzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
m,p-Xylene	<1.0 ug/L	1.0	1	09/07/10	gmr	09/07/10	gmr	N	
o-Xylene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/07/10	gmr	09/07/10	gmr		
Surrogates:									
1,2-Dichloroethane-d4	101 %	70-133	1	09/07/10	gmr	09/07/10	gmr		
Toluene-d8	109 %	76-125	1	09/07/10	gmr	09/07/10	gmr		
SEMI-VOLATILE ORGANIC COMPO	DUNDS BY GC-MS								
Analysis Method: EPA 8270C									
Batch: T018295									
Bis(2-ethylhexyl)phthalate	<0.95 ug/L	0.95	1	08/26/10	kb	08/27/10	gmr		
Surrogates:									
Nitrobenzene-d5	70 %	36-103	1	08/26/10	kb	08/27/10	gmr		
2-Fluorobiphenyl	67 %	36-119	1	08/26/10	kb	08/27/10	gmr		
Terphenyl-d14	79 %	37-109	1	08/26/10	kb	08/27/10	gmr		



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79 %

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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-05 Date Collected: 08/23/10 13:35 Matrix: Surface Water Sample ID: SW-R-3 Date Received: 08/25/10 10:54 **PARAMETERS RESULTS UNITS** RDL DILUTION **PREPARED** BY ANALYZED BY **NOTES** MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** 506 Analysis Method: EPA 8260B Batch: T018460 09/07/10 Benzene <0.50 ug/L 0.50 1 gmr 09/07/10 gmr Toluene <0.50 ug/L 0.50 1 09/07/10 gmr 09/07/10 gmr Ethylbenzene <0.50 ug/L 0.50 1 09/07/10 gmr 09/07/10 gmr m,p-Xylene <1.0 ug/L 1.0 1 09/07/10 gmr 09/07/10 gmr Ν <0.50 ug/L 09/07/10 09/07/10 o-Xylene Ν 0.50 1 gmr gmr Xylenes, total <1.5 ug/L 1 09/07/10 09/07/10 1.5 gmr gmr Surrogates: 103 % 1,2-Dichloroethane-d4 70-133 09/07/10 gmr 09/07/10 gmr 109 % Toluene-d8 76-125 09/07/10 gmr 09/07/10 gmr SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS Analysis Method: EPA 8270C Batch: T018295 08/26/10 Bis(2-ethylhexyl)phthalate <0.95 ug/L 0.95 kb 08/27/10 gmr Surrogates: 63 % 36-103 08/27/10 Nitrobenzene-d5 1 08/26/10 kb gmr 63 % 2-Fluorobiphenyl 36-119 1 08/26/10 kb 08/27/10 gmr

37-109

1

08/26/10

kb

08/27/10

gmr

#### **CERTIFICATE OF ANALYSIS**

Terphenyl-d14



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Frace ID:         T10H296-06           Sample ID:         SW-R-4			Collected: Received:	08/23/10 13: 08/25/10 10:		Matrix:	Surface	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MC
OLATILE ORGANIC COMPOUNDS	S BY GC-MS							506	
Analysis Method: EPA 8260B									
Batch: T018460									
Benzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Toluene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Ethylbenzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
m,p-Xylene	<1.0 ug/L	1.0	1	09/07/10	gmr	09/07/10	gmr	N	
o-Xylene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/07/10	gmr	09/07/10	gmr		
Surrogates:									
1,2-Dichloroethane-d4	100 %	70-133	1	09/07/10	gmr	09/07/10	gmr		
Toluene-d8	110 %	76-125	1	09/07/10	gmr	09/07/10	gmr		
SEMI-VOLATILE ORGANIC COMPO	DUNDS BY GC-MS								
Analysis Method: EPA 8270C									
Batch: T018295									
Bis(2-ethylhexyl)phthalate	<0.95 ug/L	0.95	1	08/26/10	kb	08/27/10	gmr		
Surrogates:									
Nitrobenzene-d5	66 %	36-103	1	08/26/10	kb	08/27/10	gmr		
2-Fluorobiphenyl	67 %	36-119	1	08/26/10	kb	08/27/10	gmr		
Terphenyl-d14	81 %	37-109	1	08/26/10	kb	08/27/10	gmr		



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-07 Date Collected: 08/23/10 14:00 Matrix: Surface Water

Sample ID: SW-D-4 Date Received: 08/25/10 10:54 **PARAMETERS RESULTS UNITS** RDL DILUTION **PREPARED** BY ANALYZED BY **NOTES** MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** 506 Analysis Method: EPA 8260B Batch: T018460 09/07/10 Benzene <0.50 ug/L 0.50 1 gmr 09/07/10 gmr Toluene <0.50 ug/L 0.50 1 09/07/10 gmr 09/07/10 gmr Ethylbenzene <0.50 ug/L 0.50 1 09/07/10 gmr 09/07/10 gmr m,p-Xylene <1.0 ug/L 1.0 1 09/07/10 gmr 09/07/10 gmr Ν <0.50 ug/L 09/07/10 09/07/10 o-Xylene Ν 0.50 1 gmr gmr Xylenes, total <1.5 ug/L 1 09/07/10 09/07/10 1.5 gmr gmr Surrogates: 101 % 1,2-Dichloroethane-d4 70-133 09/07/10 gmr 09/07/10 gmr 110 % Toluene-d8 76-125 09/07/10 gmr 09/07/10 gmr

#### SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T018295

Bis(2-ethylhexyl)phthalate 24 ug/L 0.98 08/26/10 kb 08/27/10 gmr Surrogates: 68 % 36-103 Nitrobenzene-d5 08/26/10 08/27/10 1 kb gmr 58 % 2-Fluorobiphenyl 36-119 1 08/26/10 kb 08/27/10 gmr 74 % Terphenyl-d14 37-109 08/26/10 08/27/10 1 kb gmr



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Frace ID:         T10H296-08           Sample ID:         SW-R-6			Collected: Received:	08/23/10 14: 08/25/10 10:		Matrix:	Surface	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	МС
VOLATILE ORGANIC COMPOUNDS	S BY GC-MS							506	
Analysis Method: EPA 8260B									
Batch: T018460									
Benzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Toluene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Ethylbenzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
m,p-Xylene	<1.0 ug/L	1.0	1	09/07/10	gmr	09/07/10	gmr	N	
o-Xylene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/07/10	gmr	09/07/10	gmr		
Surrogates:									
1,2-Dichloroethane-d4	104 %	70-133	1	09/07/10	gmr	09/07/10	gmr		
Toluene-d8	108 %	76-125	1	09/07/10	gmr	09/07/10	gmr		
SEMI-VOLATILE ORGANIC COMPO	DUNDS BY GC-MS								
Analysis Method: EPA 8270C									
Batch: T018295									
Bis(2-ethylhexyl)phthalate	<0.99 ug/L	0.99	1	08/26/10	kb	08/27/10	gmr		
Surrogates:									
Nitrobenzene-d5	74 %	36-103	1	08/26/10	kb	08/27/10	gmr		
2-Fluorobiphenyl	67 %	36-119	1	08/26/10	kb	08/27/10	gmr		
Terphenyl-d14	78 %	37-109	1	08/26/10	kb	08/27/10	gmr		



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

	Г10H296-09 SW-D-3			Collected: Received:	08/23/10 15:0 08/25/10 10:5		Matrix:	Surface	Water	
PARAMETERS		RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
VOLATILE OR	GANIC COMPOUND	S BY GC-MS							506	
Analysis Method	d: EPA 8260B									
Batch: T018	8460									
Benzene		<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Toluene		<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Ethylbenzene	•	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
m,p-Xylene		<1.0 ug/L	1.0	1	09/07/10	gmr	09/07/10	gmr	N	
o-Xylene		<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr	N	
Xylenes, total		<1.5 ug/L	1.5	1	09/07/10	gmr	09/07/10	gmr		
Surrogates:										
1,2-Dichloro	oethane-d4	103 %	70-133	1	09/07/10	gmr	09/07/10	gmr		
Toluene-d8		111 %	76-125	1	09/07/10	gmr	09/07/10	gmr		
SEMI-VOLATIL  Analysis Method	LE ORGANIC COMPO	OUNDS BY GC-MS								

Analysis Method: EPA 8270C

Batch: T018295

Bis(2-ethylhexyl)phthalate	2.3 ug/L	0.96	1	08/26/10	kb	08/27/10	gmr
Surrogates:							
Nitrobenzene-d5	78 %	36-103	1	08/26/10	kb	08/27/10	gmr
2-Fluorobiphenyl	64 %	36-119	1	08/26/10	kb	08/27/10	gmr
Terphenyl-d14	80 %	37-109	1	08/26/10	kb	08/27/10	gmr



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-10 Sample ID: SW-D-2			Collected: Received:	08/23/10 15:1 08/25/10 10:5		Matrix:	Surface	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
VOLATILE ORGANIC COM	POUNDS BY GC-MS							506	
Analysis Method: EPA 8260B									
Batch: T018460									
Benzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Toluene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Ethylbenzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
m,p-Xylene	<1.0 ug/L	1.0	1	09/07/10	gmr	09/07/10	gmr	N	
o-Xylene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/07/10	gmr	09/07/10	gmr		
Surrogates:									
1,2-Dichloroethane-d4	102 %	70-133	1	09/07/10	gmr	09/07/10	gmr		
Toluene-d8	110 %	76-125	1	09/07/10	gmr	09/07/10	gmr		
SEMI-VOLATILE ORGANIC	COMPOUNDS BY GC-MS								
Analysis Method: EPA 8270C									

Batch: T018295

Bis(2-ethylhexyl)phthalate	23 ug/L	0.95	1	08/26/10	kb	08/27/10	gmr
Surrogates:							
Nitrobenzene-d5	59 %	36-103	1	08/26/10	kb	08/27/10	gmr
2-Fluorobiphenyl	58 %	36-119	1	08/26/10	kb	08/27/10	gmr
Terphenyl-d14	67 %	37-109	1	08/26/10	kb	08/27/10	gmr



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-11 Date Collected: 08/23/10 15:20 Matrix: Surface Water Sample ID: SW-D-1 Date Received: 08/25/10 10:54 **PARAMETERS RESULTS UNITS** RDL DILUTION **PREPARED** BY ANALYZED BY **NOTES** MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** 506 Analysis Method: EPA 8260B Batch: T018460 09/07/10 Benzene <0.50 ug/L 0.50 1 gmr 09/07/10 gmr Toluene <0.50 ug/L 0.50 1 09/07/10 gmr 09/07/10 gmr Ethylbenzene <0.50 ug/L 0.50 1 09/07/10 gmr 09/07/10 gmr m,p-Xylene <1.0 ug/L 1.0 1 09/07/10 gmr 09/07/10 gmr Ν <0.50 ug/L 09/07/10 09/07/10 o-Xylene Ν 0.50 1 gmr gmr Xylenes, total <1.5 ug/L 1 09/07/10 09/07/10 1.5 gmr gmr Surrogates: 102 % 1,2-Dichloroethane-d4 70-133 09/07/10 gmr 09/07/10 gmr 110 % Toluene-d8 76-125 09/07/10 gmr 09/07/10 gmr SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS 407 Analysis Method: EPA 8270C Batch: T018295 Bis(2-ethylhexyl)phthalate 15 ug/L 1.9 2 08/26/10 kb 08/27/10 gmr Surrogates: 83 % 36-103 2 Nitrobenzene-d5 08/26/10 08/27/10 kb gmr 73 % 2 2-Fluorobiphenyl 36-119 08/26/10 kb 08/27/10 gmr 87 % Terphenyl-d14 37-109 2 08/26/10 08/27/10 kb gmr



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-12 Date Collected: 08/23/10 Matrix: Surface Water

Sample ID: DUP-01 Date Received: 08/25/10 10:54 **PARAMETERS RESULTS UNITS** RDL DILUTION **PREPARED** BY ANALYZED BY **NOTES** MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** 506 Analysis Method: EPA 8260B Batch: T018460 09/07/10 Benzene <0.50 ug/L 0.50 1 gmr 09/07/10 gmr Toluene <0.50 ug/L 0.50 1 09/07/10 gmr 09/07/10 gmr Ethylbenzene <0.50 ug/L 0.50 1 09/07/10 gmr 09/07/10 gmr m,p-Xylene <1.0 ug/L 1.0 1 09/07/10 gmr 09/07/10 gmr Ν <0.50 ug/L 09/07/10 09/07/10 o-Xylene Ν 0.50 1 gmr gmr Xylenes, total <1.5 ug/L 1 09/07/10 09/07/10 1.5 gmr gmr Surrogates: 103 % 1,2-Dichloroethane-d4 70-133 09/07/10 gmr 09/07/10 gmr 109 % Toluene-d8 76-125 09/07/10 gmr 09/07/10 gmr SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T018295

Bis(2-ethylhexyl)phthalate 17 ug/L 0.95 08/26/10 kb 08/27/10 gmr Surrogates: 69 % 36-103 Nitrobenzene-d5 08/26/10 08/27/10 1 kb gmr 57 % 2-Fluorobiphenyl 36-119 1 08/26/10 kb 08/27/10 gmr 71 % Terphenyl-d14 37-109 08/26/10 08/27/10 1 kb gmr



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-13 Sample ID: MW-19-12			Collected: Received:	08/24/10 07: 08/25/10 10:		Matrix:	Surface	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	МС
VOLATILE ORGANIC COMPOUND	S BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T018461									
Benzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Toluene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Ethylbenzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
m,p-Xylene	<1.0 ug/L	1.0	1	09/07/10	gmr	09/07/10	gmr	N	
o-Xylene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/07/10	gmr	09/07/10	gmr		
Surrogates:									
1,2-Dichloroethane-d4	93 %	70-133	1	09/07/10	gmr	09/07/10	gmr		
Toluene-d8	104 %	76-125	1	09/07/10	gmr	09/07/10	gmr		
SEMI-VOLATILE ORGANIC COMPO	OUNDS BY GC-MS								
SEMI-VOLATILE ORGANIC COMPO	OUNDS BY GC-MS								
Analysis Method: EPA 8270C  Batch: T018295									
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate	OUNDS BY GC-MS <0.96 ug/L	0.96	1	08/26/10	kb	08/27/10	gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:	<0.96 ug/L						-		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5	<0.96 ug/L 72 %	36-103	1	08/26/10	kb	08/27/10	gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl	<0.96 ug/L 72 % 63 %	36-103 36-119	1	08/26/10 08/26/10	kb kb	08/27/10 08/27/10	gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5	<0.96 ug/L 72 %	36-103	1	08/26/10	kb	08/27/10	gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl	<0.96 ug/L 72 % 63 %	36-103 36-119	1	08/26/10 08/26/10	kb kb	08/27/10 08/27/10	gmr		
Analysis Method: EPA 8270C Batch: T018295 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	<0.96 ug/L 72 % 63 %	36-103 36-119	1	08/26/10 08/26/10	kb kb	08/27/10 08/27/10	gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  METALS, DISSOLVED	<0.96 ug/L 72 % 63 %	36-103 36-119	1	08/26/10 08/26/10	kb kb	08/27/10 08/27/10	gmr		



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-14 Sample ID: MW-29S			Collected: Received:	08/24/10 09:0 08/25/10 10:5		Matrix:	Ground	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MC
OLATILE ORGANIC COMPOUND	S BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T018461									
Benzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Toluene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Ethylbenzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
m,p-Xylene	<1.0 ug/L	1.0	1	09/07/10	gmr	09/07/10	gmr	N	
o-Xylene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/07/10	gmr	09/07/10	gmr		
Surrogates:									
1,2-Dichloroethane-d4	92 %	70-133	1	09/07/10	gmr	09/07/10	gmr		
Toluene-d8	104 %	76-125	1	09/07/10	gmr	09/07/10	gmr		
Analysis Method: EPA 8270C  Batch: T018295									
Bis(2-ethylhexyl)phthalate	<0.95 ug/L	0.95	1	08/26/10	kb	08/27/10	gmr		
Surrogates:									
Nitrobenzene-d5	74 %	36-103	1	08/26/10	kb	08/27/10	gmr		
2-Fluorobiphenyl	62 %	36-119	1	08/26/10	kb	08/27/10	gmr		
Terphenyl-d14	70 %	37-109	1	08/26/10	kb	08/27/10	gmr		
METALS, TOTAL									
Analysis Method: EPA 6010B									
Batch: T018396									
Phosphorus	0.37 mg/L	0.050	1	09/01/10	bk	09/07/10	jlm		
METALS, DISSOLVED									
Analysis Method: EPA 6020									
Batch: T018291									
Lead	<0.0030 mg/L	0.0030	1	09/03/10	jd	09/07/10	jd		



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-14 Date Collected: 08/24/10 09:07 Matrix: Ground Water Sample ID: MW-29S Date Received: 08/25/10 10:54 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T018282 Nitrate as N <0.075 mg/L 5 08/25/10 bd 08/25/10 bd 0.075 Sulfate as SO4 7.0 mg/L 2.5 5 08/25/10 bd 08/25/10 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T018345 Ammonia as N 8.9 mg/L 0.050 5 08/30/10 bd 08/30/10 bd Analysis Method: SM 2540 C-97 Batch: T018312 **Total Dissolved Solids** 510 mg/L 08/26/10 10 1 as 08/26/10 as Analysis Method: SM 2540 D-97 Batch: T018307 **Total Suspended Solids** 45 mg/L 4.0 1 08/26/10 as 08/26/10 as Analysis Method: SM9215B Batch: T018289 **Heterotrophic Plate Count** 15 CFU/ml 08/25/10 08/27/10 da da Ν 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T018504

100

09/07/10

avl

09/07/10

Ν

avl

#### **CERTIFICATE OF ANALYSIS**

1800 ug/L

100

Methane



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-15 Date Collected: 08/24/10 11:08 Matrix: Ground Water Sample ID: MW-30D Date Received: 08/25/10 10:54 **PARAMETERS RESULTS UNITS** RDL DILUTION **PREPARED** BY **ANALYZED** BY **NOTES** MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** Analysis Method: EPA 8260B Batch: T018461 Benzene <0.50 ug/L 0.50 1 09/07/10 gmr 09/07/10 gmr Toluene <0.50 ug/L 0.50 1 09/07/10 gmr 09/07/10 gmr Ethylbenzene <0.50 ug/L 0.50 1 09/07/10 gmr 09/07/10 gmr m,p-Xylene <1.0 ug/L 1.0 1 09/07/10 gmr 09/07/10 gmr Ν 09/07/10 09/07/10 <0.50 ug/L Ν o-Xylene 0.50 1 gmr gmr <1.5 ug/L 1 09/07/10 09/07/10 Xylenes, total 1.5 gmr gmr Surrogates: 90 % 1,2-Dichloroethane-d4 70-133 09/07/10 gmr 09/07/10 gmr 107 % Toluene-d8 76-125 09/07/10 gmr 09/07/10 gmr SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS Analysis Method: EPA 8270C Batch: T018295 Bis(2-ethylhexyl)phthalate <0.95 ug/L 0.95 08/26/10 kb 08/27/10 gmr Surrogates: 63 % 36-103 Nitrobenzene-d5 1 08/26/10 kb 08/27/10 gmr 60 % 2-Fluorobiphenyl 36-119 1 08/26/10 kb 08/27/10 gmr 76 % 37-109 08/26/10 Terphenyl-d14 kb 08/27/10 gmr **METALS, TOTAL** Analysis Method: EPA 6010B Batch: T018396 0.13 mg/L 09/01/10 09/07/10 **Phosphorus** bk jlm 0.050 **METALS, DISSOLVED** Analysis Method: EPA 6020 Batch: T018291 Lead <0.0030 mg/L 09/03/10 jd 09/07/10 0.0030



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-15 Date Collected: 08/24/10 11:08 Matrix: Ground Water Sample ID: MW-30D Date Received: 08/25/10 10:54 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T018282 Nitrate as N <0.075 mg/L 5 08/25/10 bd 08/25/10 bd 0.075 Sulfate as SO4 12 mg/L 2.5 5 08/25/10 bd 08/25/10 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T018345 Ammonia as N 0.071 mg/L 0.010 08/30/10 bd 08/30/10 bd Analysis Method: SM 2540 C-97 Batch: T018312 **Total Dissolved Solids** 300 mg/L 08/26/10 10 1 as 08/26/10 as Analysis Method: SM 2540 D-97 Batch: T018307 **Total Suspended Solids** 15 mg/L 4.0 1 08/26/10 as 08/26/10 as Analysis Method: SM9215B Batch: T018289 **Heterotrophic Plate Count** 8300 CFU/ml 08/25/10 08/27/10 Ν da da 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T018504 Methane <1.0 ug/L 09/07/10 09/07/10 Ν

avl

avl

#### **CERTIFICATE OF ANALYSIS**

1.0



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-16 Sample ID: MW-30I			Collected: Received:	08/24/10 12:3 08/25/10 10:5		Matrix:	Ground	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	МС
/OLATILE ORGANIC COMPOUN	IDS BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T018461									
Benzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Toluene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Ethylbenzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
m,p-Xylene	<1.0 ug/L	1.0	1	09/07/10	gmr	09/07/10	gmr	N	
o-Xylene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/07/10	gmr	09/07/10	gmr		
Surrogates:									
1,2-Dichloroethane-d4	95 %	70-133	1	09/07/10	gmr	09/07/10	gmr		
Toluene-d8	105 %	76-125	1	09/07/10	gmr	09/07/10	gmr		
SEMI-VOLATILE ORGANIC COM	POUNDS BY GC-MS								
	POUNDS BY GC-MS								
SEMI-VOLATILE ORGANIC COM <u>Analysis Method: EPA 8270C</u> Batch: T018295 Bis(2-ethylhexyl)phthalate	POUNDS BY GC-MS 1.7 ug/L	0.95	1	08/26/10	kb	08/27/10	gmr		
Analysis Method: EPA 8270C Batch: T018295	1.7 ug/L	0.95	1	08/26/10	kb	08/27/10	gmr		
Analysis Method: EPA 8270C Batch: T018295 Bis(2-ethylhexyl)phthalate		<b>0.95</b> 36-103	<b>1</b>	<b>08/26/10</b> 08/26/10	<b>kb</b>	<b>08/27/10</b> 08/27/10	<b>gmr</b> gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:	<b>1.7 ug/L</b> 71 % 59 %						_		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5	<b>1.7 ug/L</b> 71 %	36-103	1	08/26/10	kb	08/27/10	gmr		
Analysis Method: EPA 8270C Batch: T018295 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	<b>1.7 ug/L</b> 71 % 59 %	36-103 36-119	1	08/26/10 08/26/10	kb kb	08/27/10 08/27/10	gmr		
Analysis Method: EPA 8270C Batch: T018295 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	<b>1.7 ug/L</b> 71 % 59 %	36-103 36-119	1	08/26/10 08/26/10	kb kb	08/27/10 08/27/10	gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B	<b>1.7 ug/L</b> 71 % 59 %	36-103 36-119	1	08/26/10 08/26/10	kb kb	08/27/10 08/27/10	gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T018396	1.7 ug/L 71 % 59 % 76 %	36-103 36-119 37-109	1 1 1	08/26/10 08/26/10 08/26/10	kb kb kb	08/27/10 08/27/10 08/27/10	gmr gmr gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B	<b>1.7 ug/L</b> 71 % 59 %	36-103 36-119	1	08/26/10 08/26/10	kb kb	08/27/10 08/27/10	gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T018396  Phosphorus	1.7 ug/L 71 % 59 % 76 %	36-103 36-119 37-109	1 1 1	08/26/10 08/26/10 08/26/10	kb kb kb	08/27/10 08/27/10 08/27/10	gmr gmr gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B Batch: T018396 Phosphorus  METALS, DISSOLVED	1.7 ug/L 71 % 59 % 76 %	36-103 36-119 37-109	1 1 1	08/26/10 08/26/10 08/26/10	kb kb kb	08/27/10 08/27/10 08/27/10	gmr gmr gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T018396	1.7 ug/L 71 % 59 % 76 %	36-103 36-119 37-109	1 1 1	08/26/10 08/26/10 08/26/10	kb kb kb	08/27/10 08/27/10 08/27/10	gmr gmr gmr		



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-16 Date Collected: 08/24/10 12:37 Matrix: Ground Water Sample ID: MW-30I Date Received: 08/25/10 10:54 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T018282 Nitrate as N <0.075 mg/L 5 08/25/10 bd 08/25/10 bd 0.075 Sulfate as SO4 5.6 mg/L 2.5 5 08/25/10 bd 08/25/10 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T018345 Ammonia as N 1.1 mg/L 0.010 08/30/10 bd 08/30/10 bd Analysis Method: SM 2540 C-97 Batch: T018312 **Total Dissolved Solids** 08/26/10 440 mg/L 10 1 as 08/26/10 as Analysis Method: SM 2540 D-97 Batch: T018307 **Total Suspended Solids** 31 mg/L 4.0 1 08/26/10 as 08/26/10 as Analysis Method: SM9215B Batch: T018289 **Heterotrophic Plate Count** 50 CFU/ml 08/25/10 08/27/10 Ν da da 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T018504

50

50

09/07/10

avl

09/07/10

Ν

avl

#### **CERTIFICATE OF ANALYSIS**

640 ug/L

Methane



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

PARAMETERS         RESULTS UNITS         RDL DILUTION           VOLATILE ORGANIC COMPOUNDS BY GC-MS           Analysis Method: EPA 8260B         Batch: T018461           Benzene         <0.50 ug/L         0.50         1           Toluene         <0.50 ug/L         0.50         1           Toluene         19 ug/L         1.0         1           o-Xylene         <0.50 ug/L         0.50         1           xylenes, total         19 ug/L         1.5         1           Surrogates:         1,2-Dichloroethane-d4         94 %         70-133         1           Toluene-d8         107 %         76-125         1           SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS           Analysis Method: EPA 8270C         Batch: T018295         Bis(2-ethylhexyl)phthalate         140 ug/L         1.9         2           Surrogates:         Nitrobenzene-d5         21 %         36-103         2           Nitrobenzene-d5         21 %         36-119         2           Terphenyl-d14         29 %         37-109         2	PREPARED         BY         ANALYZED         BY         NOTES           09/07/10         gmr         09/07/10         gmr           09/07/10         gmr         09/07/10         gmr           09/07/10         gmr         09/07/10         gmr           09/07/10         gmr         09/07/10         gmr         N           09/07/10         gmr         09/07/10         gmr         N           09/07/10         gmr         09/07/10         gmr         O           09/07/10         gmr         09/07/10         gmr         O           09/07/10         gmr         09/07/10         gmr         O	MC
### Analysis Method: EPA 8260B  Batch: T018461  Benzene <0.50 ug/L 0.50 1  Toluene <0.50 ug/L 0.50 1  Ethylbenzene 12 ug/L 0.50 1  m,p-Xylene 19 ug/L 1.0 1  o-Xylene <0.50 ug/L 0.50 1  Xylenes, total 19 ug/L 1.5 1  Surrogates:  1,2-Dichloroethane-d4 94 % 70-133 1  Toluene-d8 107 % 76-125 1   SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS  Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate 140 ug/L 1.9 2  Surrogates:  Nitrobenzene-d5 * 21 % 36-103 2  2-Fluorobiphenyl * 22 % 36-119 2  Terphenyl-d14 * 29 % 37-109 2	09/07/10 gmr 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr N 09/07/10 gmr 09/07/10 gmr N 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr	
Benzene	09/07/10 gmr 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr N 09/07/10 gmr 09/07/10 gmr N 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr	
Benzene	09/07/10 gmr 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr N 09/07/10 gmr 09/07/10 gmr N 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr	
Toluene	09/07/10 gmr 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr N 09/07/10 gmr 09/07/10 gmr N 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr	
Ethylbenzene 12 ug/L 0.50 1 m,p-Xylene 19 ug/L 1.0 1 o-Xylene <0.50 ug/L 0.50 1 Xylenes, total 19 ug/L 1.5 1 Surrogates: 1,2-Dichloroethane-d4 94 % 70-133 1 Toluene-d8 107 % 76-125 1  SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS  Analysis Method: EPA 8270C Batch: T018295 Bis(2-ethylhexyl)phthalate 140 ug/L 1.9 2 Surrogates: Nitrobenzene-d5 * 21 % 36-103 2 2-Fluorobiphenyl * 22 % 36-119 2 Terphenyl-d14 * 29 % 37-109 2	09/07/10         gmr         09/07/10         gmr           09/07/10         gmr         09/07/10         gmr         N           09/07/10         gmr         09/07/10         gmr         N           09/07/10         gmr         09/07/10         gmr           09/07/10         gmr         09/07/10         gmr	
m,p-Xylene       19 ug/L       1.0       1         o-Xylene       <0.50 ug/L	09/07/10         gmr         09/07/10         gmr         N           09/07/10         gmr         09/07/10         gmr         N           09/07/10         gmr         09/07/10         gmr         N           09/07/10         gmr         09/07/10         gmr         O	
o-Xylene	09/07/10 gmr 09/07/10 gmr N 09/07/10 gmr 09/07/10 gmr  09/07/10 gmr 09/07/10 gmr	
Xylenes, total       19 ug/L       1.5       1         Surrogates:       1,2-Dichloroethane-d4       94 %       70-133       1         Toluene-d8       107 %       76-125       1         SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS         Analysis Method: EPA 8270C       Batch: T018295         Bis(2-ethylhexyl)phthalate       140 ug/L       1.9       2         Surrogates:       Nitrobenzene-d5       * 21 %       36-103       2         2-Fluorobiphenyl       * 22 %       36-119       2         Terphenyl-d14       * 29 %       37-109       2	09/07/10 gmr 09/07/10 gmr 09/07/10 gmr 09/07/10 gmr	
Surrogates:       1,2-Dichloroethane-d4       94 %       70-133       1         Toluene-d8       107 %       76-125       1         SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS         Analysis Method: EPA 8270C         Batch: T018295       Bis(2-ethylhexyl)phthalate       140 ug/L       1.9       2         Surrogates:       Nitrobenzene-d5       * 21 %       36-103       2         2-Fluorobiphenyl       * 22 %       36-119       2         Terphenyl-d14       * 29 %       37-109       2	09/07/10 gmr 09/07/10 gmr	
1,2-Dichloroethane-d4 94 % 70-133 1 Toluene-d8 107 % 76-125 1  SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS  Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate 140 ug/L 1.9 2  Surrogates: Nitrobenzene-d5 * 21 % 36-103 2 2-Fluorobiphenyl * 22 % 36-119 2 Terphenyl-d14 * 29 % 37-109 2	g g	
Toluene-d8 107 % 76-125 1  SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS  Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate 140 ug/L 1.9 2  Surrogates: Nitrobenzene-d5 * 21 % 36-103 2  2-Fluorobiphenyl * 22 % 36-119 2  Terphenyl-d14 * 29 % 37-109 2	g g	
### SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS  #### Analysis Method: EPA 8270C  ### Batch: T018295  ### Bis(2-ethylhexyl)phthalate  ### Surrogates:  Nitrobenzene-d5  ### 21 % 36-103 2  2-Fluorobiphenyl ### 22 % 36-119 2  Terphenyl-d14  ### 29 % 37-109 2	09/07/10 gmr 09/07/10 gmr	
### Analysis Method: EPA 8270C  ### Batch: T018295  ### Bis(2-ethylhexyl)phthalate    Surrogates:	ŭ ŭ	
Surrogates:         Nitrobenzene-d5       *       21 %       36-103       2         2-Fluorobiphenyl       *       22 %       36-119       2         Terphenyl-d14       *       29 %       37-109       2		
Nitrobenzene-d5       *       21 %       36-103       2         2-Fluorobiphenyl       *       22 %       36-119       2         Terphenyl-d14       *       29 %       37-109       2	08/26/10 kb 08/31/10 gmr	
2-Fluorobiphenyl * 22 % 36-119 2 Terphenyl-d14 * 29 % 37-109 2		
Terphenyl-d14 * <b>29</b> % 37-109 2	08/26/10 kb 08/31/10 gmr 314	
	08/26/10 kb 08/31/10 gmr 314	
METALS TOTAL	08/26/10 kb 08/31/10 gmr 314	
HEIDES, ISIDE		
Analysis Method: EPA 6010B		
Batch: T018396		
Phosphorus 0.32 mg/L 0.050 1	09/01/10 bk 09/07/10 jlm	
METALS, DISSOLVED		
Analysis Method: EPA 6020		
Batch: T018291		
Lead <0.0030 mg/L 0.0030 1		



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-17 Date Collected: 08/24/10 14:14 Matrix: Ground Water Sample ID: MW-30S Date Received: 08/25/10 10:54 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T018282 Nitrate as N <0.075 mg/L 5 08/25/10 bd 08/25/10 bd 0.075 Sulfate as SO4 4.9 mg/L 2.5 5 08/25/10 bd 08/25/10 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T018345 Ammonia as N 1.0 mg/L 0.010 08/30/10 bd 08/30/10 bd Analysis Method: SM 2540 C-97 Batch: T018312 **Total Dissolved Solids** 08/26/10 480 mg/L 10 1 as 08/26/10 as Analysis Method: SM 2540 D-97 Batch: T018307 **Total Suspended Solids** 46 mg/L 4.0 1 08/26/10 as 08/26/10 as Analysis Method: SM9215B Batch: T018289 **Heterotrophic Plate Count** 3600 CFU/ml 08/25/10 08/27/10 da da Ν 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T018504

100

09/07/10

avl

09/07/10

Ν

avl

#### **CERTIFICATE OF ANALYSIS**

1600 ug/L

100

Methane



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-18 Sample ID: ATM-01		Date Collected: Date Received:		08/24/10 14:40 08/25/10 10:54		Matrix: Ground Water			
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	МС
VOLATILE ORGANIC COMPOUNI	DS BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T018461									
Benzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Toluene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Ethylbenzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
m,p-Xylene	<1.0 ug/L	1.0	1	09/07/10	gmr	09/07/10	gmr	N	
o-Xylene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/07/10	gmr	09/07/10	gmr		
Surrogates:									
1,2-Dichloroethane-d4	94 %	70-133	1	09/07/10	gmr	09/07/10	gmr		
Toluene-d8	104 %	76-125	1	09/07/10	gmr	09/07/10	gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate	<0.95 ug/L	0.95	1	08/26/10	kb	08/27/10	gmr		
Surrogates:	, and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	0.00					Ū		
Nitrobenzene-d5	44 %	36-103	1	08/26/10	kb	08/27/10	gmr		
2-Fluorobiphenyl	39 %	36-119	1	08/26/10	kb	08/27/10	gmr		
Terphenyl-d14	47 %	37-109	1	08/26/10	kb	08/27/10	gmr		
METALS, TOTAL									
Analysis Method: EPA 6010B									
a., c.cca. <u></u>									
Batch: T018396									
·	<0.050 mg/L	0.050	1	09/01/10	bk	09/07/10	jlm		
Batch: T018396	<0.050 mg/L	0.050	1	09/01/10	bk	09/07/10	jlm		
Batch: T018396 Phosphorus	<0.050 mg/L <0.0030 mg/L	0.050	1	09/01/10	bk	09/07/10	jlm		



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-18 Date Collected: 08/24/10 14:40 Matrix: Ground Water Sample ID: ATM-01 Date Received: 08/25/10 10:54 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T018282 Nitrate as N <0.075 mg/L 5 08/25/10 bd 08/25/10 bd 0.075 Sulfate as SO4 <2.5 mg/L 2.5 5 08/25/10 bd 08/25/10 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T018345 Ammonia as N <0.010 mg/L 08/30/10 bd 08/30/10 bd 0.010 Analysis Method: SM 2540 C-97 Batch: T018312 **Total Dissolved Solids** <10 mg/L 08/26/10 as 08/26/10 as 10 Analysis Method: SM 2540 D-97 Batch: T018307 **Total Suspended Solids** <4.0 mg/L 08/26/10 as 08/26/10 as 4.0 Analysis Method: SM9215B Batch: T018289 <1.0 CFU/ml 08/25/10 Heterotrophic Plate Count da 08/27/10 da Ν 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T018504 Methane <1.0 ug/L 1.0 09/07/10 avl 09/07/10 Ν



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# **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-19 Sample ID: MW-8			Collected: Received:	08/24/10 15:3 08/25/10 10:5		Matrix:	Ground	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MC
/OLATILE ORGANIC COMPOUNDS	BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T018461									
Benzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Toluene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Ethylbenzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
m,p-Xylene	4.2 ug/L	1.0	1	09/07/10	gmr	09/07/10	gmr	N	
o-Xylene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr	N	
Xylenes, total	4.2 ug/L	1.5	1	09/07/10	gmr	09/07/10	gmr		
Surrogates:									
1,2-Dichloroethane-d4	96 %	70-133	1	09/07/10	gmr	09/07/10	gmr		
Toluene-d8	103 %	76-125	1	09/07/10	gmr	09/07/10	gmr		
SEMI-VOLATILE ORGANIC COMPO	OUNDS BY GC-MS								
	OUNDS BY GC-MS								
Analysis Method: EPA 8270C	OUNDS BY GC-MS 4.8 ug/L	0.95	1	08/26/10	kb	08/27/10	gmr		
	4.8 ug/L	0.95	1	08/26/10	kb	08/27/10	gmr		
Analysis Method: EPA 8270C Batch: T018295 Bis(2-ethylhexyl)phthalate	<b>4.8 ug/L</b> 61 %	<b>0.95</b> 36-103	1	<b>08/26/10</b> 08/26/10	<b>kb</b>	<b>08/27/10</b> 08/27/10	<b>gmr</b> gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:	<b>4.8 ug/L</b> 61 % 65 %								
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5	<b>4.8 ug/L</b> 61 %	36-103	1	08/26/10	kb	08/27/10	gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14	<b>4.8 ug/L</b> 61 % 65 %	36-103 36-119	1 1	08/26/10 08/26/10	kb kb	08/27/10 08/27/10	gmr gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14	<b>4.8 ug/L</b> 61 % 65 %	36-103 36-119	1 1	08/26/10 08/26/10	kb kb	08/27/10 08/27/10	gmr gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B	<b>4.8 ug/L</b> 61 % 65 %	36-103 36-119	1 1	08/26/10 08/26/10	kb kb	08/27/10 08/27/10	gmr gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T018396	<b>4.8 ug/L</b> 61 % 65 % 77 %	36-103 36-119 37-109	1 1 1	08/26/10 08/26/10 08/26/10	kb kb kb	08/27/10 08/27/10 08/27/10	gmr gmr gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B	<b>4.8 ug/L</b> 61 % 65 %	36-103 36-119	1 1	08/26/10 08/26/10	kb kb	08/27/10 08/27/10	gmr gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5 2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T018396	<b>4.8 ug/L</b> 61 % 65 % 77 %	36-103 36-119 37-109	1 1 1	08/26/10 08/26/10 08/26/10	kb kb kb	08/27/10 08/27/10 08/27/10	gmr gmr gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T018396  Phosphorus	<b>4.8 ug/L</b> 61 % 65 % 77 %	36-103 36-119 37-109	1 1 1	08/26/10 08/26/10 08/26/10	kb kb kb	08/27/10 08/27/10 08/27/10	gmr gmr gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5 2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T018396  Phosphorus  METALS, DISSOLVED	<b>4.8 ug/L</b> 61 % 65 % 77 %	36-103 36-119 37-109	1 1 1	08/26/10 08/26/10 08/26/10	kb kb kb	08/27/10 08/27/10 08/27/10	gmr gmr gmr		



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-19 Date Collected: 08/24/10 15:31 Matrix: Ground Water Sample ID: MW-8 Date Received: 08/25/10 10:54 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T018282 Nitrate as N <0.075 mg/L 5 08/25/10 bd 08/25/10 bd 0.075 Sulfate as SO4 7.7 mg/L 2.5 5 08/25/10 bd 08/25/10 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T018345 Ammonia as N 0.61 mg/L 0.010 08/30/10 bd 08/30/10 bd Analysis Method: SM 2540 C-97 Batch: T018312 **Total Dissolved Solids** 08/26/10 490 mg/L 10 1 as 08/26/10 as Analysis Method: SM 2540 D-97 Batch: T018307 **Total Suspended Solids** 70 mg/L 4.0 1 08/26/10 as 08/26/10 as Analysis Method: SM9215B Batch: T018289 **Heterotrophic Plate Count** 100 CFU/ml 08/25/10 08/27/10 Ν da da 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T018504

100

09/07/10

avl

09/07/10

Ν

avl

# **CERTIFICATE OF ANALYSIS**

4900 ug/L

100

Methane



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# **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID:         T10H296-20           Sample ID:         MW-27S			Collected: Received:	08/24/10 16: 08/25/10 10:		Matrix:	Ground	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCI
VOLATILE ORGANIC COMPOUND	S BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T018461									
Benzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Toluene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Ethylbenzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
m,p-Xylene	<1.0 ug/L	1.0	1	09/07/10	gmr	09/07/10	gmr	N	
o-Xylene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/07/10	gmr	09/07/10	gmr		
Surrogates:									
1,2-Dichloroethane-d4	90 %	70-133	1	09/07/10	gmr	09/07/10	gmr		
Toluene-d8	104 %	76-125	1	09/07/10	gmr	09/07/10	gmr		
SEMI-VOLATILE ORGANIC COMP	OUNDS BY GC-MS								
SEMI-VOLATILE ORGANIC COMP <u>Analysis Method: EPA 8270C</u> Batch: T018295	OUNDS BY GC-MS								
Analysis Method: EPA 8270C	OUNDS BY GC-MS <0.99 ug/L	0.99	1	08/26/10	kb	08/27/10	gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:	<0.99 ug/L						-		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5	<0.99 ug/L 57 %	36-103	1	08/26/10	kb	08/27/10	gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl	<0.99 ug/L 57 % 65 %	36-103 36-119	1	08/26/10 08/26/10	kb kb	08/27/10 08/27/10	gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5	<0.99 ug/L 57 %	36-103	1	08/26/10	kb	08/27/10	gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl	<0.99 ug/L 57 % 65 %	36-103 36-119	1	08/26/10 08/26/10	kb kb	08/27/10 08/27/10	gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  WET CHEMISTRY	<0.99 ug/L 57 % 65 %	36-103 36-119	1	08/26/10 08/26/10	kb kb	08/27/10 08/27/10	gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  NET CHEMISTRY  Analysis Method: SM9215B	<0.99 ug/L 57 % 65 %	36-103 36-119	1	08/26/10 08/26/10	kb kb	08/27/10 08/27/10	gmr		
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  NET CHEMISTRY  Analysis Method: SM9215B  Batch: T018289	<0.99 ug/L 57 % 65 %	36-103 36-119 37-109	1	08/26/10 08/26/10	kb kb	08/27/10 08/27/10	gmr	N	
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  NET CHEMISTRY  Analysis Method: SM9215B	<0.99 ug/L 57 % 65 % 80 %	36-103 36-119	1 1 1	08/26/10 08/26/10 08/26/10	kb kb kb	08/27/10 08/27/10 08/27/10	gmr gmr gmr	N	
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  NET CHEMISTRY  Analysis Method: SM9215B  Batch: T018289	<0.99 ug/L 57 % 65 % 80 %	36-103 36-119 37-109	1 1 1	08/26/10 08/26/10 08/26/10	kb kb kb	08/27/10 08/27/10 08/27/10	gmr gmr gmr	N	
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  NET CHEMISTRY  Analysis Method: SM9215B  Batch: T018289  Heterotrophic Plate Count	<0.99 ug/L 57 % 65 % 80 % 70 CFU/mI	36-103 36-119 37-109	1 1 1	08/26/10 08/26/10 08/26/10	kb kb kb	08/27/10 08/27/10 08/27/10	gmr gmr gmr	N	
Analysis Method: EPA 8270C  Batch: T018295  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  NET CHEMISTRY  Analysis Method: SM9215B Batch: T018289  Heterotrophic Plate Count	<0.99 ug/L 57 % 65 % 80 % 70 CFU/mI	36-103 36-119 37-109	1 1 1	08/26/10 08/26/10 08/26/10	kb kb kb	08/27/10 08/27/10 08/27/10	gmr gmr gmr	N	



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-21 Date Collected: 08/16/10 Matrix: Surface Water Sample ID: TB-01 Date Received: 08/25/10 10:54 **RESULTS UNITS** NOTES **PARAMETERS** RDL DILUTION **PREPARED** BY ANALYZED BY MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** Analysis Method: EPA 8260B Batch: T018461 <0.50 ug/L 09/07/10 Benzene 0.50 1 gmr 09/07/10 gmr Toluene <0.50 ug/L 0.50 1 09/07/10 gmr 09/07/10 gmr Ethylbenzene <0.50 ug/L 09/07/10 09/07/10 0.50 1 gmr gmr m,p-Xylene <1.0 ug/L 1.0 1 09/07/10 gmr 09/07/10 gmr Ν <0.50 ug/L 09/07/10 09/07/10 o-Xylene Ν 0.50 1 gmr gmr Xylenes, total <1.5 ug/L 1 09/07/10 09/07/10 1.5 gmr gmr Surrogates: 95 % 1,2-Dichloroethane-d4 70-133 1 09/07/10 gmr 09/07/10 gmr 105 % Toluene-d8 76-125 09/07/10 gmr 09/07/10 gmr



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-22 Date Collected: 08/25/10 06:50 Matrix: Ground Water Sample ID: MW-27S Date Received: 08/26/10 10:36 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **METALS, TOTAL** Analysis Method: EPA 6010B Batch: T018396 **Phosphorus** 0.094 mg/L 0.050 09/01/10 bk 09/07/10 jlm METALS, DISSOLVED Analysis Method: EPA 6020 Batch: T018291 <0.0030 mg/L 09/03/10 09/07/10 jd jd Lead 0.0030 **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T018306 0.29 mg/L Nitrate as N 08/26/10 08/26/10 5 0.075 bd bd Sulfate as SO4 42 mg/L 5 08/26/10 08/26/10 2.5 bd bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T018345 <0.010 mg/L 08/30/10 08/30/10 Ammonia as N 0.010 bd bd Analysis Method: SM 2540 C-97 Batch: T018312 **Total Dissolved Solids** 1100 mg/L 08/26/10 as 08/26/10 as 10 Analysis Method: SM 2540 D-97 Batch: T018307 **Total Suspended Solids** 28 mg/L 4.0 08/26/10 as 08/26/10 as



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# **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-23 Sample ID: MW-25 (R)			Collected: Received:	08/25/10 08:5 08/26/10 10:3		Matrix:	Ground	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	МС
VOLATILE ORGANIC COMPOU	NDS BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T018460									
Benzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Toluene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
Ethylbenzene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr		
m,p-Xylene	<1.0 ug/L	1.0	1	09/07/10	gmr	09/07/10	gmr	N	
o-Xylene	<0.50 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/07/10	gmr	09/07/10	gmr		
Surrogates:									
1,2-Dichloroethane-d4	105 %	70-133	1	09/07/10	gmr	09/07/10	gmr		
Toluene-d8	109 %	76-125	1	09/07/10	gmr	09/07/10	gmr		
Analysis Method: EPA 8270C Batch: T018339									
Bis(2-ethylhexyl)phthalate	<0.99 ug/L	0.99	1	08/30/10	kb	08/31/10	gmr		
Surrogates:									
Nitrobenzene-d5	49 %	36-103	1	08/30/10	kb	08/31/10	gmr		
2-Fluorobiphenyl	54 %	36-119	1	08/30/10	kb	08/31/10	gmr		
Terphenyl-d14	72 %	37-109	1	08/30/10	kb	08/31/10	gmr		
METALS, TOTAL									
Analysis Method: EPA 6010B									
Batch: T018396									
Phosphorus	<0.050 mg/L	0.050	1	09/01/10	bk	09/07/10	jlm		
		0.000	•				,		
METALS, DISSOLVED									
Analysis Method: EPA 6020									
Analysis Method: EPA 6020  Batch: T018291									
Analysis Method: EPA 6020  Batch: T018291  Lead	<0.0030 mg/L	0.0030	1	09/03/10	jd	09/07/10	jd		



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Methane

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-23 Date Collected: 08/25/10 08:57 Matrix: Ground Water Sample ID: MW-25 (R) Date Received: 08/26/10 10:36 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T018306 Nitrate as N <0.075 mg/L 5 08/26/10 bd 08/26/10 bd 0.075 Sulfate as SO4 30 mg/L 2.5 5 08/26/10 bd 08/26/10 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T018345 Ammonia as N 0.11 mg/L 0.010 08/30/10 bd 08/30/10 bd Analysis Method: SM 2540 C-97 Batch: T018312 **Total Dissolved Solids** 650 mg/L 08/26/10 10 1 as 08/26/10 as Analysis Method: SM 2540 D-97 Batch: T018307 **Total Suspended Solids** 65 mg/L 4.0 1 08/26/10 as 08/26/10 as Analysis Method: SM9215B Batch: T018311 **Heterotrophic Plate Count** 3800 CFU/ml 08/26/10 08/28/10 Ν da da 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T018504

# **CERTIFICATE OF ANALYSIS**

1.5 ug/L

1.0

09/07/10

avl

09/08/10

Ν

avl



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-24 Date Collected: 08/25/10 10:30 Matrix: Ground Water

Sample ID: MW-35S Date Received: 08/26/10 10:36

PARAMETERS RESULTS UNITS RDL DILUTION PREPARED BY ANALYZED BY NOTES MCL

# **VOLATILE ORGANIC COMPOUNDS BY GC-MS**

Anal	/cic	Method:	FΡΔ	8260R

Batch:	1018460	
20nzono		

Benzene	8.7 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr	
Toluene	24 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr	
Ethylbenzene	10000 ug/L	500	1000	09/08/10	gmr	09/08/10	gmr	
m,p-Xylene	44000 ug/L	1000	1000	09/08/10	gmr	09/08/10	gmr	Ν
o-Xylene	17000 ug/L	500	1000	09/08/10	gmr	09/08/10	gmr	Ν
Xylenes, total	61000 ug/L	1500	1000	09/08/10	gmr	09/08/10	gmr	
Surrogates:								
1,2-Dichloroethane-d4	104 %	70-133	1	09/07/10	gmr	09/07/10	gmr	
1,2-Dichloroethane-d4	86 %	70-133	1000	09/08/10	gmr	09/08/10	gmr	
Toluene-d8	111 %	76-125	1	09/07/10	gmr	09/07/10	gmr	
Toluene-d8	94 %	76-125	1000	09/08/10	gmr	09/08/10	gmr	

# SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

# Analysis Method: EPA 8270C

Batch: T018339

Bis(2-ethylhexyl)phthalate	280 ug/L	4.8	5	08/30/10	kb	09/03/10	gmr
Surrogates:							
Nitrobenzene-d5	89 %	36-103	5	08/30/10	kb	09/03/10	gmr
2-Fluorobiphenyl	87 %	36-119	5	08/30/10	kb	09/03/10	gmr
Terphenyl-d14	98 %	37-109	5	08/30/10	kb	09/03/10	gmr

# **METALS, TOTAL**

#### Analysis Method: EPA 6010B

Batch: T018396

Phosphorus 0.11 mg/L 0.050 1 09/01/10 bk 09/07/10 jlm



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# **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Гrace ID: T10H296-24 Sample ID: MW-35S			Collected: Received:	08/25/10 10:3 08/26/10 10:3		Matrix:	Ground '	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCI
METALS, DISSOLVED									
Analysis Method: EPA 6020									
Batch: T018291									
Lead	<0.0030 mg/L	0.0030	1	09/03/10	jd	09/07/10	jd		
WET CHEMISTRY									
Analysis Method: EPA 300.0 Rev. 2.1									
Batch: T018306									
Nitrate as N	<0.075 mg/L	0.075	5	08/26/10	bd	08/26/10	bd		
Sulfate as SO4	4.6 mg/L	2.5	5	08/26/10	bd	08/26/10	bd		
Analysis Method: EPA 350.1 Rev. 2.0									
Batch: T018345									
Ammonia as N	0.15 mg/L	0.010	1	08/30/10	bd	08/30/10	bd		
Analysis Method: SM 2540 C-97									
Batch: T018312									
Total Dissolved Solids	570 mg/L	10	1	08/26/10	as	08/26/10	as		
Analysis Method: SM 2540 D-97									
Batch: T018307									
Total Suspended Solids	35 mg/L	4.0	1	08/26/10	as	08/26/10	as		
Analysis Method: SM9215B									
Batch: T018311									
Heterotrophic Plate Count	170 CFU/ml	1.0	1	08/26/10	da	08/28/10	da	N	
VOLATILE ORGANIC COMPOUNDS	BY GC								
Analysis Method: RSK-175(MOD) / ISOT									
Batch: T018504	<u>LOII</u>								
Methane	13000 ug/L	250	250	09/07/10	avl	09/08/10	avl	N	



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-25 Date Collected: 08/25/10 11:00 Matrix: Surface Water

Sample ID: MW-34S Date Received: 08/26/10 10:36

PARAMETERS RESULTS UNITS RDL DILUTION PREPARED BY ANALYZED BY NOTES MCL

# **VOLATILE ORGANIC COMPOUNDS BY GC-MS**

# Analysis Method: EPA 8260B

Benzene	4.7 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr	
Toluene	13 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr	
Ethylbenzene	240 ug/L	50	100	09/08/10	gmr	09/08/10	gmr	
m,p-Xylene	1000 ug/L	100	100	09/08/10	gmr	09/08/10	gmr	N
o-Xylene	170 ug/L	50	100	09/08/10	gmr	09/08/10	gmr	Ν
Xylenes, total	1200 ug/L	150	100	09/08/10	gmr	09/08/10	gmr	
Surrogates:								
1,2-Dichloroethane-d4	93 %	70-133	1	09/07/10	gmr	09/07/10	gmr	
1,2-Dichloroethane-d4	89 %	70-133	100	09/08/10	gmr	09/08/10	gmr	
Toluene-d8	100 %	76-125	1	09/07/10	gmr	09/07/10	gmr	
Toluene-d8	91 %	76-125	100	09/08/10	gmr	09/08/10	gmr	

# SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

## Analysis Method: EPA 8270C

Batch: T018339

Bis(2-ethylhexyl)phthalate	22 ug/L	0.98	1	08/30/10	kb	09/01/10	gmr
Surrogates:							
Nitrobenzene-d5	65 %	36-103	1	08/30/10	kb	09/01/10	gmr
2-Fluorobiphenyl	59 %	36-119	1	08/30/10	kb	09/01/10	gmr
Terphenyl-d14	70 %	37-109	1	08/30/10	kb	09/01/10	gmr

# **VOLATILE ORGANIC COMPOUNDS BY GC**

## Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T018504

Methane 3100 ug/L 200 200 09/07/10 avI 09/08/10 avI N



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# **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-26 Sample ID: MW-33S			Collected: Received:	08/25/10 11:2 08/26/10 10:3		Matrix:	Ground	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MC
OLATILE ORGANIC COMPOUNDS	S BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T018484									
Benzene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr		
Toluene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr		
Ethylbenzene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr		
m,p-Xylene	3.7 ug/L	1.0	1	09/08/10	gmr	09/08/10	gmr	N	
o-Xylene	2.2 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr	N	
Xylenes, total	5.9 ug/L	1.5	1	09/08/10	gmr	09/08/10	gmr		
Surrogates:									
1,2-Dichloroethane-d4	91 %	70-133	1	09/08/10	gmr	09/08/10	gmr		
Toluene-d8	106 %	76-125	1	09/08/10	gmr	09/08/10	gmr		
	DUNDS BY GC-MS								
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T018339		9.5	10	08/30/10	kb	09/03/10	amr		
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T018339 Bis(2-ethylhexyl)phthalate	DUNDS BY GC-MS 560 ug/L	9.5	10	08/30/10	kb	09/03/10	gmr		
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T018339		<b>9.5</b> 36-103	<b>10</b> 10	<b>08/30/10</b> 08/30/10	<b>kb</b> kb	<b>09/03/10</b> <b>09/03/10</b>	<b>gmr</b> gmr	302	
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T018339 Bis(2-ethylhexyl)phthalate Surrogates:	560 ug/L							302	
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T018339 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5	560 ug/L * %	36-103	10	08/30/10	kb	09/03/10	gmr	302	
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T018339 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl	<b>560 ug/L</b> * % 62 %	36-103 36-119	10 10	08/30/10 08/30/10	kb kb	09/03/10 09/03/10	gmr gmr	302	
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T018339 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl	<b>560 ug/L</b> * % 62 %	36-103 36-119	10 10	08/30/10 08/30/10	kb kb	09/03/10 09/03/10	gmr gmr	302	
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T018339 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	<b>560 ug/L</b> * % 62 %	36-103 36-119	10 10	08/30/10 08/30/10	kb kb	09/03/10 09/03/10	gmr gmr	302	
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T018339 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	<b>560 ug/L</b> * % 62 %	36-103 36-119	10 10	08/30/10 08/30/10	kb kb	09/03/10 09/03/10	gmr gmr	302	
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T018339 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14 WETALS, TOTAL Analysis Method: EPA 6010B	<b>560 ug/L</b> * % 62 %	36-103 36-119	10 10	08/30/10 08/30/10	kb kb	09/03/10 09/03/10	gmr gmr	302	
SEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T018339 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14 METALS, TOTAL Analysis Method: EPA 6010B Batch: T018396	560 ug/L  * % 62 % 64 %	36-103 36-119 37-109	10 10 10	08/30/10 08/30/10 08/30/10	kb kb kb	09/03/10 09/03/10 09/03/10	gmr gmr gmr	302	
BEMI-VOLATILE ORGANIC COMPO Analysis Method: EPA 8270C Batch: T018339 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14 METALS, TOTAL Analysis Method: EPA 6010B Batch: T018396 Phosphorus	560 ug/L  * % 62 % 64 %	36-103 36-119 37-109	10 10 10	08/30/10 08/30/10 08/30/10	kb kb kb	09/03/10 09/03/10 09/03/10	gmr gmr gmr	302	

# **CERTIFICATE OF ANALYSIS**

<0.0030 mg/L

0.0030

09/03/10

jd

09/07/10

jd

Lead



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-26 Date Collected: 08/25/10 11:25 Matrix: Ground Water Sample ID: MW-33S Date Received: 08/26/10 10:36 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T018306 Nitrate as N <0.075 mg/L 5 08/26/10 bd 08/26/10 bd 0.075 Sulfate as SO4 18 mg/L 2.5 5 08/26/10 bd 08/26/10 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T018345 Ammonia as N 4.3 mg/L 0.010 08/30/10 bd 08/30/10 bd Analysis Method: SM 2540 C-97 Batch: T018312 **Total Dissolved Solids** 650 mg/L 08/26/10 10 1 as 08/26/10 as Analysis Method: SM 2540 D-97 Batch: T018307 **Total Suspended Solids** 22 mg/L 4.0 1 08/26/10 as 08/26/10 as Analysis Method: SM9215B Batch: T018311 **Heterotrophic Plate Count** 66000 CFU/ml 08/26/10 08/28/10 da da Ν 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T018504

200

09/07/10

avl

09/08/10

Ν

avl

# **CERTIFICATE OF ANALYSIS**

540 ug/L

200

Methane



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09/07/10

gmr

09/07/10

gmr

N N

#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-27 Date Collected: 08/25/10 12:10 Matrix: Ground Water

Sample ID: MW-31S Date Received: 08/26/10 10:36

3.6 ug/L

PARAMETERS RESULTS UNITS RDL DILUTION PREPARED BY ANALYZED BY NOTES MCL

0.50

# **VOLATILE ORGANIC COMPOUNDS BY GC-MS**

Analysis	Method:	FΡΔ	8260R

Batch:	T018461
Ranzana	

Toluene	8.4 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr
Ethylbenzene	760 ug/L	50	100	09/08/10	gmr	09/08/10	gmr
m,p-Xylene	9200 ug/L	100	100	09/08/10	gmr	09/08/10	gmr
o-Xylene	2500 ug/L	50	100	09/08/10	gmr	09/08/10	gmr
Xylenes, total	12000 ug/L	150	100	09/08/10	gmr	09/08/10	gmr
Surrogates:							
1,2-Dichloroethane-d4	95 %	70-133	1	09/07/10	gmr	09/07/10	gmr
1,2-Dichloroethane-d4	88 %	70-133	100	09/08/10	gmr	09/08/10	gmr
Toluene-d8	100 %	76-125	1	09/07/10	gmr	09/07/10	gmr
Toluene-d8	91 %	76-125	100	09/08/10	gmr	09/08/10	gmr

# SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

## Analysis Method: EPA 8270C

Batch: T018339

Bis(2-ethylhexyl)phthalate		440 ug/L	9.8	10	08/30/10	kb	09/03/10	gmr	
Surrogates:									
Nitrobenzene-d5		50 %	36-103	10	08/30/10	kb	09/03/10	gmr	
2-Fluorobiphenyl	*	%	36-119	10	08/30/10	kb	09/03/10	gmr	302
Terphenyl-d14		52 %	37-109	10	08/30/10	kb	09/03/10	gmr	

# **METALS, TOTAL**

#### Analysis Method: EPA 6010B

Batch: T018396

Phosphorus 0.25 mg/L 0.050 1 09/01/10 bk 09/07/10 jlm



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# **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Frace ID: T10H296-27 Sample ID: MW-31S			Date Collected: Date Received:		08/25/10 12:10 08/26/10 10:36		Matrix: Ground Water		
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCI
METALS, DISSOLVED									
Analysis Method: EPA 6020									
Batch: T018291									
Lead	<0.0030 mg/L	0.0030	1	09/03/10	jd	09/07/10	jd		
WET CHEMISTRY									
Analysis Method: EPA 300.0 Rev. 2.1									
Batch: T018306									
Nitrate as N	<0.075 mg/L	0.075	5	08/26/10	bd	08/26/10	bd		
Sulfate as SO4	41 mg/L	2.5	5	08/26/10	bd	08/26/10	bd		
Analysis Method: EPA 350.1 Rev. 2.0									
Batch: T018345									
Ammonia as N	15 mg/L	0.10	10	08/30/10	bd	08/30/10	bd		
Analysis Method: SM 2540 C-97									
Batch: T018312									
Total Dissolved Solids	920 mg/L	10	1	08/26/10	as	08/26/10	as		
Analysis Method: SM 2540 D-97									
Batch: T018307									
Total Suspended Solids	11 mg/L	4.0	1	08/26/10	as	08/26/10	as		
Analysis Method: SM9215B									
Batch: T018311									
Heterotrophic Plate Count	> 30,000 CFU/ml	1.0	1	08/26/10	da	08/28/10	da	702, N	
/OLATILE ORGANIC COMPOUNDS BY GO	;								
Analysis Method: RSK-175(MOD) / ISOTECH									
Batch: T018504									
Methane	3900 ug/L	250	250	09/07/10	avl	09/08/10	avl	N	



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-28 Date Collected: 08/25/10 12:35 Matrix: Ground Water

Sample ID: MW-32S Date Received: 08/26/10 10:36

PARAMETERS RESULTS UNITS RDL DILUTION PREPARED BY ANALYZED BY NOTES MCL

# **VOLATILE ORGANIC COMPOUNDS BY GC-MS**

Analysis	Method:	FΡΔ	8260R

Batch:	T018461
Renzene	

Benzene	6.9 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr	
Toluene	4.5 ug/L	0.50	1	09/07/10	gmr	09/07/10	gmr	
Ethylbenzene	4500 ug/L	50	100	09/08/10	gmr	09/08/10	gmr	
m,p-Xylene	19000 ug/L	100	100	09/08/10	gmr	09/08/10	gmr	N
o-Xylene	1600 ug/L	50	100	09/08/10	gmr	09/08/10	gmr	N
Xylenes, total	20000 ug/L	150	100	09/08/10	gmr	09/08/10	gmr	
Surrogates:								
1,2-Dichloroethane-d4	92 %	70-133	1	09/07/10	gmr	09/07/10	gmr	
1,2-Dichloroethane-d4	88 %	70-133	100	09/08/10	gmr	09/08/10	gmr	
Toluene-d8	100 %	76-125	1	09/07/10	gmr	09/07/10	gmr	
Toluene-d8	90 %	76-125	100	09/08/10	gmr	09/08/10	gmr	

# SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

## Analysis Method: EPA 8270C

Batch: T018339

Bis(2-ethylhexyl)phthalate		6100 ug/L	96	100	08/30/10	kb	09/03/10	gmr	
Surrogates:									
Nitrobenzene-d5	*	%	36-103	100	08/30/10	kb	09/03/10	gmr	302
2-Fluorobiphenyl	*	%	36-119	100	08/30/10	kb	09/03/10	gmr	302
Terphenyl-d14	*	%	37-109	100	08/30/10	kb	09/03/10	amr	302

# **METALS, TOTAL**

#### Analysis Method: EPA 6010B

Batch: T018396

Phosphorus 0.17 mg/L 0.050 1 09/01/10 bk 09/07/10 jlm



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-28 Date Collected: 08/25/10 12:35 Matrix: Ground Water Sample ID: MW-32S Date Received: 08/26/10 10:36 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T018306 Nitrate as N <0.075 mg/L 5 08/26/10 bd 08/26/10 bd 0.075 Sulfate as SO4 12 mg/L 2.5 5 08/26/10 bd 08/26/10 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T018345 Ammonia as N 0.40 mg/L 0.010 08/30/10 bd 08/30/10 bd Analysis Method: SM 2540 C-97 Batch: T018312 **Total Dissolved Solids** 850 mg/L 08/26/10 10 1 as 08/26/10 as Analysis Method: SM 2540 D-97 Batch: T018307 **Total Suspended Solids** 400 mg/L 4.0 1 08/26/10 as 08/26/10 as Analysis Method: SM9215B Batch: T018311 **Heterotrophic Plate Count** 11000 CFU/ml 08/26/10 08/28/10 da da Ν 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** 

# **CERTIFICATE OF ANALYSIS**

5100 ug/L

250

250

09/07/10

avl

09/08/10

Ν

avl

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T018504

Methane



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# **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-29 Sample ID: MW-28I			Date Collected: Date Received:		08/25/10 14:10 08/26/10 10:36		Matrix: Ground Water		
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	МС
VOLATILE ORGANIC COMPOUNDS	BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T018484									
Benzene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr		
Toluene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr		
Ethylbenzene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr		
m,p-Xylene	<1.0 ug/L	1.0	1	09/08/10	gmr	09/08/10	gmr	N	
o-Xylene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/08/10	gmr	09/08/10	gmr		
Surrogates:									
1,2-Dichloroethane-d4	90 %	70-133	1	09/08/10	gmr	09/08/10	gmr		
Toluene-d8	105 %	76-125	1	09/08/10	gmr	09/08/10	gmr		
	UNDS BY GC-MS								
Analysis Method: EPA 8270C Batch: T018339				2010040		20/20/40			
Analysis Method: EPA 8270C Batch: T018339 Bis(2-ethylhexyl)phthalate	UNDS BY GC-MS 11 ug/L	0.96	1	08/30/10	kb	09/03/10	gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:	11 ug/L								
Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5		36-103	1	08/30/10	kb	09/03/10	gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl	<b>11 ug/L</b> 55 %	36-103 36-119	1	08/30/10 08/30/10	kb kb	09/03/10 09/03/10	gmr gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5	<b>11 ug/L</b> 55 % 54 %	36-103	1	08/30/10	kb	09/03/10	gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl	<b>11 ug/L</b> 55 % 54 %	36-103 36-119	1	08/30/10 08/30/10	kb kb	09/03/10 09/03/10	gmr gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14	<b>11 ug/L</b> 55 % 54 %	36-103 36-119	1	08/30/10 08/30/10	kb kb	09/03/10 09/03/10	gmr gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14	<b>11 ug/L</b> 55 % 54 %	36-103 36-119	1	08/30/10 08/30/10	kb kb	09/03/10 09/03/10	gmr gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B	<b>11 ug/L</b> 55 % 54 %	36-103 36-119	1	08/30/10 08/30/10	kb kb	09/03/10 09/03/10	gmr gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T018396	11 ug/L 55 % 54 % 65 %	36-103 36-119 37-109	1 1 1	08/30/10 08/30/10 08/30/10	kb kb kb	09/03/10 09/03/10 09/03/10	gmr gmr gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T018396  Phosphorus	11 ug/L 55 % 54 % 65 %	36-103 36-119 37-109	1 1 1	08/30/10 08/30/10 08/30/10	kb kb kb	09/03/10 09/03/10 09/03/10	gmr gmr gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5 2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T018396  Phosphorus  METALS, DISSOLVED	11 ug/L 55 % 54 % 65 %	36-103 36-119 37-109	1 1 1	08/30/10 08/30/10 08/30/10	kb kb kb	09/03/10 09/03/10 09/03/10	gmr gmr gmr		



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-29 Date Collected: 08/25/10 14:10 Matrix: Ground Water Sample ID: MW-28I Date Received: 08/26/10 10:36 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T018306 Nitrate as N <0.075 mg/L 5 08/26/10 bd 08/26/10 bd 0.075 Sulfate as SO4 8.5 mg/L 2.5 5 08/26/10 bd 08/26/10 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T018345 Ammonia as N 0.33 mg/L 0.010 08/30/10 bd 08/30/10 bd Analysis Method: SM 2540 C-97 Batch: T018312 **Total Dissolved Solids** 08/26/10 420 mg/L 10 1 as 08/26/10 as Analysis Method: SM 2540 D-97 Batch: T018307 **Total Suspended Solids** 23 mg/L 4.0 1 08/26/10 as 08/26/10 as Analysis Method: SM9215B Batch: T018311 **Heterotrophic Plate Count** 5.5 CFU/ml 08/26/10 08/28/10 Ν da da 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T018504

50

09/07/10

avl

09/08/10

Ν

avl

# **CERTIFICATE OF ANALYSIS**

210 ug/L

50

Methane



fax

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# **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

VOLATILE ORGANIC COMPOUNDS BY GC-MS  Analysis Method: EPA 82608  Batch: 7018494  Benzene	Trace ID: T10H296-30 Sample ID: MW-28S			Date Collected: Date Received:		08/25/10 15:09 08/26/10 10:36		Ground Water		
### Analysis Method: EPA 82608  ### Batch: T018484  ### Benzene	PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	МС
Benzene	OLATILE ORGANIC COMPOUNDS	BY GC-MS								
Bezzene	Analysis Method: EPA 8260B									
Toluene	Batch: T018484									
Ethylbenzene 5.7 ug/L 0.50 1 09/08/10 gmr 09/08/10 gmr 09/08/10 gmr 09/08/10 gmr N 0-Xylene 12 ug/L 1.0 1 09/08/10 gmr 09/08/10 gmr N 0-Xylene <0.50 ug/L 0.50 1 09/08/10 gmr 09/08/10 gmr N Xylenes, total 12 ug/L 1.5 1 09/08/10 gmr 09/08/10 gmr N Xylenes, total 12 ug/L 1.5 1 09/08/10 gmr 09/08/10 gmr 09/08/10 gmr N Xylenes, total 12 ug/L 1.5 1 09/08/10 gmr 09/08/10 gmr O9/08/10 gm	Benzene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr		
m,p-Xylene 12 ug/L 1.0 1 09/08/10 gmr 09/08/10 gmr N N o-Xylene <0.50 ug/L 0.50 1 09/08/10 gmr 09/08/10 gmr N Xylene, total 12 ug/L 1.5 1 09/08/10 gmr 09/08/10 gmr N Xylene, total 12 ug/L 1.5 1 09/08/10 gmr 09/08/10 gmr O9/08/10 gmr N Xylene, total 12 ug/L 1.5 1 09/08/10 gmr 09/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr Toluene-d8 102 % 76-125 1 09/08/10 gmr 09/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr N O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr O9/08/10 gmr	Toluene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr		
O-Xylene	Ethylbenzene	5.7 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr		
Xylenes, total   12 ug/L   1.5   1   09/08/10   gmr   09/08/10   gmr   Surrogates:	m,p-Xylene	12 ug/L	1.0	1	09/08/10	gmr	09/08/10	gmr	N	
1,2-Dichloroethane-d4	o-Xylene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr	N	
1,2-Dichloroethane-d4 91 % 70-133 1 09/08/10 gmr 09/08/10 gmr 70-10-10-10-10-10-10-10-10-10-10-10-10-10	Xylenes, total	12 ug/L	1.5	1	09/08/10	gmr	09/08/10	gmr		
Toluene-d8 102 % 76-125 1 09/08/10 gmr 09/08/10 gmr  SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS  Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate 39 ug/L 0.95 1 08/30/10 kb 09/01/10 gmr  Surrogates: Nitrobenzene-d5 60 % 36-103 1 08/30/10 kb 09/01/10 gmr  2-Fluorobiphenyl 60 % 36-119 1 08/30/10 kb 09/01/10 gmr  Terphenyl-d14 78 % 37-109 1 08/30/10 kb 09/01/10 gmr  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T018396  Phosphorus 0.35 mg/L 0.050 1 09/01/10 bk 09/07/10 jlm  METALS, DISSOLVED  Analysis Method: EPA 6020  Batch: T018291	Surrogates:									
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS	1,2-Dichloroethane-d4	91 %	70-133	1	09/08/10	gmr	09/08/10	gmr		
### Analysis Method: EPA 8270C  ### Batch: T018339  ### Bis(2-ethylhexyl)phthalate    39 ug/L   0.95   1   08/30/10   kb   09/01/10   gmr	Toluene-d8	102 %	76-125	1	09/08/10	gmr	09/08/10	gmr		
Surrogates:   Nitrobenzene-d5   60 %   36-103   1   08/30/10   kb   09/01/10   gmr										
Nitrobenzene-d5 60 % 36-103 1 08/30/10 kb 09/01/10 gmr 2-Fluorobiphenyl 60 % 36-119 1 08/30/10 kb 09/01/10 gmr Terphenyl-d14 78 % 37-109 1 08/30/10 kb 09/01/10 gmr  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T018396  Phosphorus 0.35 mg/L 0.050 1 09/01/10 bk 09/07/10 jlm  METALS, DISSOLVED  Analysis Method: EPA 6020  Batch: T018291	Bis(2-ethylhexyl)phthalate	39 ug/L	0.95	1	08/30/10	kb	09/01/10	gmr		
2-Fluorobiphenyl 60 % 36-119 1 08/30/10 kb 09/01/10 gmr Terphenyl-d14 78 % 37-109 1 08/30/10 kb 09/01/10 gmr  WETALS, TOTAL  Analysis Method: EPA 6010B  Batch: T018396  Phosphorus 0.35 mg/L 0.050 1 09/01/10 bk 09/07/10 jlm  WETALS, DISSOLVED  Analysis Method: EPA 6020  Batch: T018291	_	20.04								
Terphenyl-d14 78 % 37-109 1 08/30/10 kb 09/01/10 gmr  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T018396  Phosphorus 0.35 mg/L 0.050 1 09/01/10 bk 09/07/10 jlm  METALS, DISSOLVED  Analysis Method: EPA 6020  Batch: T018291				1		kb		gmr		
METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T018396  Phosphorus 0.35 mg/L 0.050 1 09/01/10 bk 09/07/10 jlm  METALS, DISSOLVED  Analysis Method: EPA 6020  Batch: T018291	2-Fluorobiphenyl		36-119	1		kb	09/01/10	gmr		
### Analysis Method: EPA 6010B  Batch: T018396  Phosphorus 0.35 mg/L 0.050 1 09/01/10 bk 09/07/10 jlm  ###################################	Terphenyl-d14	78 %	37-109	1	08/30/10	kb	09/01/10	gmr		
## Batch: T018396  Phosphorus 0.35 mg/L 0.050 1 09/01/10 bk 09/07/10 jlm  ###################################	METALS, TOTAL									
## Batch: T018396  Phosphorus 0.35 mg/L 0.050 1 09/01/10 bk 09/07/10 jlm  ### METALS, DISSOLVED  ### Analysis Method: EPA 6020  Batch: T018291	Analysis Method: EPA 6010B									
Phosphorus         0.35 mg/L         0.050         1         09/01/10         bk         09/07/10         jlm   WETALS, DISSOLVED Analysis Method: EPA 6020 Batch: T018291										
Analysis Method: EPA 6020  Batch: T018291	-									
Batch: T018291	Batch: T018396	0.35 mg/L	0.050	1	09/01/10	bk	09/07/10	jlm		
Batch: T018291	Batch: T018396 Phosphorus	0.35 mg/L	0.050	1	09/01/10	bk	09/07/10	jlm		
	Batch: T018396  Phosphorus  METALS, DISSOLVED	0.35 mg/L	0.050	1	09/01/10	bk	09/07/10	jlm		
Lead <0.0030 mg/L 0.0030 1 09/03/10 jd 09/07/10 jd	Batch: T018396 Phosphorus METALS, DISSOLVED Analysis Method: EPA 6020	0.35 mg/L	0.050	1	09/01/10	bk	09/07/10	jlm		

# **CERTIFICATE OF ANALYSIS**



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Methane

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-30 Date Collected: 08/25/10 15:09 Matrix: Ground Water Sample ID: MW-28S Date Received: 08/26/10 10:36 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T018306 Nitrate as N <0.075 mg/L 5 08/26/10 bd 08/26/10 bd 0.075 Sulfate as SO4 5.2 mg/L 2.5 5 08/26/10 bd 08/26/10 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T018345 Ammonia as N 0.20 mg/L 0.010 08/30/10 bd 08/30/10 bd Analysis Method: SM 2540 C-97 Batch: T018312 **Total Dissolved Solids** 510 mg/L 08/26/10 10 1 as 08/26/10 as Analysis Method: SM 2540 D-97 Batch: T018307 **Total Suspended Solids** 21 mg/L 4.0 1 08/26/10 as 08/26/10 as Analysis Method: SM9215B Batch: T018311 **Heterotrophic Plate Count** 42 CFU/ml 08/26/10 08/28/10 da da Ν 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T018504

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09/07/10

avl

09/08/10

Ν

avl

# **CERTIFICATE OF ANALYSIS**

900 ug/L

50



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-31 Date Collected: 08/25/10 16:15 Matrix: Ground Water

Sample ID: MW-34S Date Received: 08/26/10 10:36

PARAMETERS RESULTS UNITS RDL DILUTION PREPARED BY ANALYZED BY NOTES MCL

**WET CHEMISTRY** 

Analysis Method: SM9215B

Batch: T018311

Heterotrophic Plate Count > 30,000 CFU/ml 1.0 1 08/26/10 da 08/28/10 da 702, 709,

Ν



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# **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-32  Sample ID: RB-01			Date Collected: Date Received:		08/25/10 16:55 08/26/10 10:36		Matrix: Surface Water		
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
VOLATILE ORGANIC COMPOUND	S BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T018484									
Benzene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr		
Toluene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr		
Ethylbenzene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr		
m,p-Xylene	<1.0 ug/L	1.0	1	09/08/10	gmr	09/08/10	gmr	N	
o-Xylene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/08/10	gmr	09/08/10	gmr		
Surrogates: 1,2-Dichloroethane-d4	89 %	70-133	1	09/08/10	gmr	09/08/10	gmr		
Toluene-d8	104 %	76-125	1	09/08/10	gmr	09/08/10	gmr		
SEMI-VOLATILE ORGANIC COMP	OUNDS BY GC-MS								
Analysis Method: EPA 8270C									
Batch: T018339									
Bis(2-ethylhexyl)phthalate	<0.98 ug/L	0.98	1	08/30/10	kb	09/01/10	gmr		
Surrogates:									
Nitrobenzene-d5	62 %	36-103	1	08/30/10	kb	09/01/10	gmr		

36-119

37-109

62 %

79 %

1

08/30/10

08/30/10

kb

kb

09/01/10

09/01/10

gmr

gmr

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2-Fluorobiphenyl

Terphenyl-d14



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# **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Frace ID:         T10H296-33           Sample ID:         RB-02			Collected: Received:	08/25/10 17:0 08/26/10 10:3		Matrix: Ground Water			
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCI
VOLATILE ORGANIC COMPOUND	OS BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T018484									
Benzene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr		
Toluene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr		
Ethylbenzene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr		
m,p-Xylene	<1.0 ug/L	1.0	1	09/08/10	gmr	09/08/10	gmr	N	
o-Xylene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/08/10	gmr	09/08/10	gmr		
Surrogates:									
1,2-Dichloroethane-d4	92 %	70-133	1	09/08/10	gmr	09/08/10	gmr		
Toluene-d8	104 %	76-125	1	09/08/10	gmr	09/08/10	gmr		
SEMI-VOLATILE ORGANIC COMP	POUNDS BY GC-MS								
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5	<0.95 ug/L 68 %	0.95 36-103	1	08/30/10 08/30/10	kb kb	09/01/10	gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl	<0.95 ug/L 68 % 68 %	36-103 36-119	1 1	08/30/10 08/30/10	kb kb	09/01/10 09/01/10	_		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5	<0.95 ug/L 68 %	36-103	1	08/30/10	kb	09/01/10	gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14	<0.95 ug/L 68 % 68 %	36-103 36-119	1 1	08/30/10 08/30/10	kb kb	09/01/10 09/01/10	gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14	<0.95 ug/L 68 % 68 %	36-103 36-119	1 1	08/30/10 08/30/10	kb kb	09/01/10 09/01/10	gmr		
Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  METALS, TOTAL	<0.95 ug/L 68 % 68 %	36-103 36-119	1 1	08/30/10 08/30/10	kb kb	09/01/10 09/01/10	gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B	<0.95 ug/L 68 % 68 %	36-103 36-119	1 1	08/30/10 08/30/10	kb kb	09/01/10 09/01/10	gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T018396 Phosphorus  Analysis Method: EPA 6020	<0.95 ug/L 68 % 68 % 80 %	36-103 36-119 37-109	1 1 1	08/30/10 08/30/10 08/30/10	kb kb kb	09/01/10 09/01/10 09/01/10	gmr gmr gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T018396  Phosphorus	<0.95 ug/L 68 % 68 % 80 %	36-103 36-119 37-109	1 1 1	08/30/10 08/30/10 08/30/10	kb kb kb	09/01/10 09/01/10 09/01/10	gmr gmr gmr		



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Methane

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-33 Date Collected: 08/25/10 17:05 Matrix: Ground Water Sample ID: **RB-02** Date Received: 08/26/10 10:36 **PARAMETERS RESULTS UNITS** RDL DILUTION PREPARED BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T018306 Nitrate as N <0.075 mg/L 5 08/26/10 bd 08/26/10 bd 0.075 Sulfate as SO4 <2.5 mg/L 2.5 5 08/26/10 bd 08/26/10 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T018345 Ammonia as N <0.010 mg/L 08/30/10 bd 08/30/10 bd 0.010 Analysis Method: SM 2540 C-97 Batch: T018312 **Total Dissolved Solids** 110 mg/L 08/26/10 08/26/10 10 as as Analysis Method: SM 2540 D-97 Batch: T018307 **Total Suspended Solids** <4.0 mg/L 4.0 1 08/26/10 as 08/26/10 as Analysis Method: SM9215B Batch: T018311 1.0 CFU/ml **Heterotrophic Plate Count** 1.0 08/26/10 da 08/28/10 da Ν **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T018504

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2.7 ug/L

1.0

09/07/10

avl

09/08/10

avl

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# **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-34 Sample ID: Dup-02			Collected: Received:	08/25/10 08/26/10 10:3	86	Matrix:	Ground	Water	
PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	МС
OLATILE ORGANIC COMPOUNDS	S BY GC-MS								
Analysis Method: EPA 8260B									
Batch: T018484									
Benzene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr		
Toluene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr		
Ethylbenzene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr		
m,p-Xylene	<1.0 ug/L	1.0	1	09/08/10	gmr	09/08/10	gmr	N	
o-Xylene	<0.50 ug/L	0.50	1	09/08/10	gmr	09/08/10	gmr	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/08/10	gmr	09/08/10	gmr		
Surrogates:									
1,2-Dichloroethane-d4	93 %	70-133	1	09/08/10	gmr	09/08/10	gmr		
SEMI-VOLATILE ORGANIC COMPO	DUNDS BY GC-MS								
Analysis Method: EPA 8270C Batch: T018339									
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate	DUNDS BY GC-MS 29 ug/L	0.95	1	08/30/10	kb	09/01/10	gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:							_		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5	<b>29 ug/L</b> 66 %	36-103	1	08/30/10	kb	09/01/10	gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:	29 ug/L						_		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl	<b>29 ug/L</b> 66 % 66 %	36-103 36-119	1 1	08/30/10 08/30/10	kb kb	09/01/10 09/01/10	gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl	<b>29 ug/L</b> 66 % 66 %	36-103 36-119	1 1	08/30/10 08/30/10	kb kb	09/01/10 09/01/10	gmr		
Analysis Method: EPA 8270C Batch: T018339 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	<b>29 ug/L</b> 66 % 66 %	36-103 36-119	1 1	08/30/10 08/30/10	kb kb	09/01/10 09/01/10	gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14	<b>29 ug/L</b> 66 % 66 %	36-103 36-119	1 1	08/30/10 08/30/10	kb kb	09/01/10 09/01/10	gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates:  Nitrobenzene-d5  2-Fluorobiphenyl  Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B	<b>29 ug/L</b> 66 % 66 %	36-103 36-119	1 1	08/30/10 08/30/10	kb kb	09/01/10 09/01/10	gmr		
Analysis Method: EPA 8270C Batch: T018339 Bis(2-ethylhexyl)phthalate Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  METALS, TOTAL Analysis Method: EPA 6010B Batch: T018396	29 ug/L 66 % 66 % 74 %	36-103 36-119 37-109	1 1 1	08/30/10 08/30/10 08/30/10	kb kb kb	09/01/10 09/01/10 09/01/10	gmr gmr gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B Batch: T018396 Phosphorus  METALS, DISSOLVED	29 ug/L 66 % 66 % 74 %	36-103 36-119 37-109	1 1 1	08/30/10 08/30/10 08/30/10	kb kb kb	09/01/10 09/01/10 09/01/10	gmr gmr gmr		
Analysis Method: EPA 8270C  Batch: T018339  Bis(2-ethylhexyl)phthalate  Surrogates: Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14  METALS, TOTAL  Analysis Method: EPA 6010B  Batch: T018396  Phosphorus	29 ug/L 66 % 66 % 74 %	36-103 36-119 37-109	1 1 1	08/30/10 08/30/10 08/30/10	kb kb kb	09/01/10 09/01/10 09/01/10	gmr gmr gmr		



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-34 Date Collected: 08/25/10 Matrix: Ground Water Sample ID: Dup-02 Date Received: 08/26/10 10:36 **PARAMETERS RESULTS UNITS** RDL DILUTION **PREPARED** BY ANALYZED BY **NOTES** MCL **WET CHEMISTRY** Analysis Method: EPA 300.0 Rev. 2.1 Batch: T018306 Nitrate as N <0.075 mg/L 5 08/26/10 bd 08/26/10 bd 0.075 Sulfate as SO4 5.4 mg/L 2.5 5 08/26/10 bd 08/26/10 bd Analysis Method: EPA 350.1 Rev. 2.0 Batch: T018345 Ammonia as N 0.19 mg/L 0.010 08/30/10 bd 08/30/10 bd Analysis Method: SM 2540 C-97 Batch: T018312 **Total Dissolved Solids** 08/26/10 440 mg/L 10 1 as 08/26/10 as Analysis Method: SM 2540 D-97 Batch: T018307 **Total Suspended Solids** 19 mg/L 4.0 1 08/26/10 as 08/26/10 as Analysis Method: SM9215B Batch: T018311 **Heterotrophic Plate Count** 44 CFU/ml 08/26/10 08/28/10 Ν da da 1.0 **VOLATILE ORGANIC COMPOUNDS BY GC** Analysis Method: RSK-175(MOD) / ISOTECH Batch: T018504 Methane 910 ug/L 50 09/07/10 09/08/10 Ν

avl

avl

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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-35 Date Collected: 08/26/10 08:40 Matrix: Ground Water

Sample ID: MW-32s Date Received: 08/27/10 10:37

PARAMETERS RESULTS UNITS RDL DILUTION PREPARED BY ANALYZED BY NOTES MCL

METALS, DISSOLVED

Analysis Method: EPA 6020

Batch: T018291

Lead <0.0030 mg/L 0.0030 1 09/03/10 jd 09/07/10 jd



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10H296-36 Date Collected: 08/26/10 08:50 Matrix: Ground Water

Sample ID: MW-34s Date Received: 08/27/10 10:37

PARAMETERS RESULTS UNITS RDL DILUTION PREPARED BY ANALYZED BY NOTES MCL

METALS, TOTAL

Analysis Method: EPA 6010B

Phosphorus 0.084 mg/L 0.050 1 09/01/10 bk 09/07/10 jlm

METALS, DISSOLVED

Batch: T018396

Analysis Method: EPA 6020

Batch: T018291

Lead <0.0030 mg/L 0.0030 1 09/03/10 jd 09/07/10 jd

**WET CHEMISTRY** 

Analysis Method: EPA 350.1 Rev. 2.0

Batch: T018345

Ammonia as N 0.032 mg/L 0.010 1 08/30/10 bd 08/30/10 bd



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# **QUALITY CONTROL RESULTS**

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch: T018504

QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous

Samples

Analysis Description: Dissolved Gases

Analysis Method: RSK-175(MOD) / ISOTECH

#### METHOD BLANK: T018504-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Methane	ug/L	<1.0	1.0	

# LABORATORY CONTROL SAMPLE: T018504-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Methane	ug/L	17.1	12.9	75	70-130	

# MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T018504-MSD1

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Methane	ug/L	0.596	12.8	11.7	12.5	87	93	70-130	6	15	

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch: T018396
QC Batch Method: EPA 3015 Microwave Assisted

Digestions for Liquids

Analysis Description: Phosphorus, Total

Analysis Method: EPA 6010B

Original: T10H296-15

## METHOD BLANK: T018396-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Phosphorus	ma/L	<0.050	0.050	

# LABORATORY CONTROL SAMPLE: T018396-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Phosphorus	mg/L	8.89	8.65	97	80-120	

# MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T018396-MSD1

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Phosphorus	mg/L	0.128	8.89	8.74	8.87	97	98	75-125	1	20	

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

Original: T10H296-15

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QC Batch: T018291 Analysis Description: Lead, Dissolved QC Batch Method: Analysis Method: EPA 6020

METHOD BLANK: T018291-BLK1

Blank Reporting Parameter Units Result Notes Limit Lead mg/L < 0.0030 0.0030

LABORATORY CONTROL SAMPLE: T018291-BS1

Spike LCS LCS % Rec Parameter Result % Rec Conc. Notes Units Limit 0.250 0.247 99 80-120 Lead mg/L

Original: T10H296-15 MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T018291-MSD1

Spike Original MS MS MSD % Rec Max RPD Notes Parameter Units Conc. % Rec RPD Result Result Result % Rec Limit mg/L O 0.250 0.267 108 107 75-125 2 20 Lead 0.271

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch: T018396 Analysis Description: Lead, Total

QC Batch Method: EPA 3015 Microwave Assisted

Digestions for Liquids

Analysis Method: EPA 6020

#### METHOD BLANK: T018396-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Lead	mg/L	<0.0030	0.0030	

# LABORATORY CONTROL SAMPLE: T018396-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Lead	mg/L	0.0556	0.0632	114	80-120	

#### Original: T10H296-15 MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T018396-MSD1

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Lead	mg/L	0	0.0556	0.0666	0.0682	120	123	75-125	2	20	

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch: T018295 Analysis Description: Semi-volatiles, TCL list

QC Batch Method: EPA 3510C Separatory Funnel Analysis Method: EPA 8270C Liquid-Liquid Extr.

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#### METHOD BLANK: T018295-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	<5.0	5.0	
Nitrobenzene-d5 (S)	%	53	36-103	
2-Fluorobiphenyl (S)	%	56	36-119	
Terphenyl-d14 (S)	%	72	37-109	

# LABORATORY CONTROL SAMPLE: T018295-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	77.3	77	57-107	
Nitrobenzene-d5 (S)	%	100	76.3	76	36-103	
2-Fluorobiphenyl (S)	%	100	72.2	72	36-119	
Terphenyl-d14 (S)	%	100	83.9	84	37-109	

# MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T018295-MSD1

Original	T10H296-10
Original:	110H296-10

					_						
Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Bis(2-ethylhexyl)phthalate	ug/L	22.8	95.2	109	111	90	93	52-106	3	29	
Nitrobenzene-d5 (S)	%		95.2	64.8	66.0	68	69	36-103			
2-Fluorobiphenyl (S)	%		95.2	65.4	60.1	69	63	36-119			
Terphenyl-d14 (S)	%		95.2	68.4	69.5	72	73	37-109			

#### MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T018295-MSD2

Original:	T10H296-18	5
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Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Bis(2-ethylhexyl)phthalate	ug/L	0	98.0	86.0	88.2	89	90	52-106	0.6	29	
Nitrobenzene-d5 (S)	%		98.0	85.1	84.7	89	86	36-103			
2-Fluorobiphenyl (S)	%		98.0	69.3	69.5	72	71	36-119			
Terphenyl-d14 (S)	%		98.0	79.0	78.9	82	80	37-109			

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch: T018339 Analysis Description: Semi-volatiles, TCL list QC Batch Method: EPA 3510C Separatory Funnel Analysis Method: EPA 8270C

Liquid-Liquid Extr.

# METHOD BLANK: T018339-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Dimethyl phthalate	ug/L	<5.0	5.0	
Diethyl phthalate	ug/L	<5.0	5.0	
Di-n-butyl phthalate	ug/L	<5.0	5.0	
Butyl benzyl phthalate	ug/L	<5.0	5.0	
Bis(2-ethylhexyl)phthalate	ug/L	<5.0	5.0	

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Report ID: T10H296 FINAL 09 10 10 1352 Page 59 of 76



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# METHOD BLANK: T018339-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Di-n-octyl phthalate	ug/L	<5.0	5.0	
Dihexyl phthalate	ug/L	<5.0	5.0	
Diisononyl phthalate	ug/L	<5.0	5.0	
Diisodecyl phthalate	ug/L	<5.0	5.0	
Nitrobenzene-d5 (S)	%	58	36-103	
2-Fluorobiphenyl (S)	%	56	36-119	
Terphenyl-d14 (S)	%	82	37-109	

# LABORATORY CONTROL SAMPLE: T018339-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	79.8	80	57-107	
Nitrobenzene-d5 (S)	%	100	70.5	71	36-103	
2-Fluorobiphenyl (S)	%	100	67.5	68	36-119	
Terphenyl-d14 (S)	%	100	83.0	83	37-109	

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch: T018460

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous

Analysis Method: EPA 8260B

Samples

# METHOD BLANK: T018460-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	101	70-133	
Toluene-d8 (S)	%	109	76-125	

# LABORATORY CONTROL SAMPLE: T018460-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	18.7	94	80-120	
Toluene	ug/L	20.0	18.6	93	80-120	
1,2-Dichloroethane-d4 (S)	%	25.0	24.8	99	70-133	
Toluene-d8 (S)	%	25.0	27.5	110	76-125	



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MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T018460-MSD1

Original: T10H296-10

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Benzene	ug/L	0	20.0	19.5	19.9	97	99	78-114	2	11	
Toluene	ug/L	0	20.0	19.6	19.8	98	99	77-118	1	10	
1,2-Dichloroethane-d4 (S)	%		25.0	25.4	25.2	101	101	70-133			
Toluene-d8 (S)	%		25.0	27.9	28.4	111	113	76-125			

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Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch: T018461

QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous

Samples

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

Analysis Method: EPA 8260B

#### METHOD BLANK: T018461-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	93	70-133	
Toluene-d8 (S)	%	106	76-125	

# LABORATORY CONTROL SAMPLE: T018461-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	20.9	105	80-120	
Toluene	ug/L	20.0	22.0	110	80-120	
1,2-Dichloroethane-d4 (S)	%	25.0	23.1	92	70-133	
Toluene-d8 (S)	%	25.0	26.6	106	76-125	

#### Original: T10H296-15 MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T018461-MSD1

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Benzene	ug/L	0	20.0	20.1	20.6	101	103	78-114	2	11	
Toluene	ug/L	0	20.0	20.7	21.4	103	107	77-118	4	10	
1,2-Dichloroethane-d4 (S)	%		25.0	23.1	23.0	92	92	70-133			
Toluene-d8 (S)	%		25.0	26.4	26.4	105	106	76-125			

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch: T018484

QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous

Samples

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

Analysis Method: EPA 8260B



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# METHOD BLANK: T018484-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	92	70-133	
Toluene-d8 (S)	%	103	76-125	

# LABORATORY CONTROL SAMPLE: T018484-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	19.8	99	80-120	
Toluene	ug/L	20.0	20.8	104	80-120	
1,2-Dichloroethane-d4 (S)	%	25.0	22.7	91	70-133	
Toluene-d8 (S)	%	25.0	26.5	106	76-125	

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch: T018497

QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

Analysis Method: EPA 8260B

# METHOD BLANK: T018497-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	87	70-133	
Toluene-d8 (S)	%	91	76-125	

# LABORATORY CONTROL SAMPLE: T018497-BS1

		Spike	LCS	LCS	0/ D	
Parameter	Units	Conc.	Result	% Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	19.5	97	80-120	
Toluene	ug/L	20.0	19.5	98	80-120	
1,2-Dichloroethane-d4 (S)	%	30.0	25.0	83	70-133	
Toluene-d8 (S)	%	30.0	28.0	93	76-125	

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

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QC Batch: T018282

018282

Analysis Description: Nitrate

Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T018282-BLK1

QC Batch Method: IC Prep W

Parameter	Units	Blank Result	Reporting Limit	Notes
Nitrate as N	mg/L	<0.015	0.015	
Sulfate as SO4	mg/L	<0.50	0.50	

LABORATORY CONTROL SAMPLE: T018282-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Nitrate as N	mg/L	0.500	0.471	94	90-110	
Sulfate as SO4	mg/L	2.50	2.49	99	90-110	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T018282-MSD1 Original: T10H296-15

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Nitrate as N	mg/L	0.0553	6.00	5.69	5.74	94	95	80-120	1	20	
Sulfate as SO4	mg/L	11.9	30.0	46.3	46.9	114	116	80-120	2	20	

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch: T018306 Analysis Description: Nitrate

QC Batch Method: IC Prep W Analysis Method: EPA 300.0 Rev. 2.1

## METHOD BLANK: T018306-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Nitrate as N	mg/L	<0.015	0.015	
Sulfate as SO4	ma/L	<0.50	0.50	

# LABORATORY CONTROL SAMPLE: T018306-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Nitrate as N	mg/L	0.500	0.470	94	90-110	
Sulfate as SO4	mg/L	2.50	2.49	100	90-110	

# MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T018306-MSD1 Original: T10H296-22

		Original	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Result	Result	% Rec	% Rec	Limit	RPD	RPD	Notes
Nitrate as N	mg/L	0.292	6.00	6.29	6.23	100	99	80-120	0.9	20	

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Report ID: T10H296 FINAL 09 10 10 1352 Page 63 of 76



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Original: T10H296-22 MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T018306-MSD1

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Sulfate as SO4	mg/L	41.7	30.0	75.1	74.7	111	110	80-120	1	20	

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch: T018345 Analysis Description: Nitrogen, Ammonia QC Batch Method: EPA 350.1 Rev. 2.0 Analysis Method: EPA 350.1 Rev. 2.0

#### METHOD BLANK: T018345-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Ammonia as N	mg/L	<0.010	0.010	

#### LABORATORY CONTROL SAMPLE: T018345-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Ammonia as N	ma/L	1.00	0.967	97	90-110	

#### Original: T10H296-15 MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T018345-MSD1

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Ammonia as N	mg/L	0.0709	2.00	1.94	1.90	93	91	90-110	2	7.9	

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch: T018312 Analysis Description: Total Dissolved Solids QC Batch Method: SM 2540 C-97 Analysis Method: SM 2540 C-97

#### METHOD BLANK: T018312-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Dissolved Solids	ma/L	<10	10	

#### **SAMPLE DUPLICATE: T018312-DUP1** Original: T10H296-15

Parameter	Units	Original Result	DUP Result	Max RPD RPD Notes
Total Dissolved Solids	mg/L	304	301	1 20

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch: T018307 Analysis Description: Total Suspended Solids

QC Batch Method: SM 2540 D-97 Analysis Method: SM 2540 D-97

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METHOD BLANK: T018307-BLK2
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Parameter	Units	Blank Result	Reporting Limit	Notes
Total Suspended Solids	mg/L	<10	10	

#### LABORATORY CONTROL SAMPLE: T018307-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	mg/L	50.0	48.0	96	85-115	

#### SAMPLE DUPLICATE: T018307-DUP1 Original: **T10H296-15**

Parameter	Units	Original Result	DUP Result	Max RPD RPD Notes
Total Suspended Solids	mg/L	15.0	16.0	6 20

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch	n: T018289	Analysis Description: Heterotrophic Plate Count
QC Batch	Method: SM9215B	Analysis Method: SM9215B

#### METHOD BLANK: T018289-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Heterotrophic Plate Count	CFU/ml	<1.0	1.0	

Trace Project ID: T10H296

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch: T018311 Analysis Description: Heterotrophic Plate Count QC Batch Method: SM9215B Analysis Method: SM9215B



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MERA TMDL's
Drinking Water
NPDES
USACE
USACE N C TRACE USE ONLY ω 4 63 2  $\iota_{\gamma}$ Ø N Soil Volatiles Preserved: Received on ice: Logged By: PERD RELEASED BY CHE Standard (2 wk)
5 Day
2-4 Day (RUSH)
24 Hour (RUSH) és Standard (2 wk) ANALYSIS REQUESTED Me OH 8 En Core RECEIVED BY Preservative Checked Checked By Low Level S = Soil
W = Water
SE = Sediment
OI = Oil SO = Solid Waste Matrix Ke lab DATE (MSD REMARKS TRACE ID NO. és SL = Sludge D = Drinking Water LW = Liquid Waste 8 TIME ¥, Possible Health Hazard



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SE = Sediment
OI = Oil
SO = Solid Waste S = SoilMatrix Ke 70 Lab DATE REMARKS TRACE ID NO. WI = Wipes LW = Liquid Waste D = Drinking Water 중 Ħ N A Possible Health Hazard



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5 Day

2-4 Day (RUSH)

24 Hour (RUSH)

Requires prior approval <del>les</del> Standard (2 wk) ANALYSIS REQUESTED MeOH 8 En Core RECEIVED BY Preservative Checked: Checked By: Low Level W = Water
SE = Sediment
OI = Oil
SO = Solid Waste S = Soil Matrix Key Lab DATE REMARKS TRACE ID NO. Yes SL = Sludge Wt = Wipes LW = Liquid Waste D = Drinking Water 8

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Possible Health Hazard

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MERA TMDL's
Drinking Water
NPDES
USACE
Special 2 TRACE USE ONLY 0 12 S 5 4  $\omega$ 0 6 O Soil Volatiles Preserved: Received on Logged Bit RELEASED BY 1 0 N 2 S 67 8 ģ Standard (2 wk)
5 Day
2-4 Day (RUSH)
24 Hour (RUSH) Standard (2 wk) urnaround Regu ANALYSIS REQUESTED MeOH 몽 四 RECEIVED BY Core Preservative Checked: Checked By: Low Level W = Water 임=임 S = SoilSO = Solid Waste Matrix Key TRACE! REMARKS PATE g WI = Wipes LW = Liquid Waste D = Drinking Water õ TIME Ķ Possible Health Hazard



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the science of compliance

phone toll-free fax

231.773.5998 800.733.5998 231.773.6537 Trace Analytical Laboratories, Inc. 2241 Black Creek Road Muskegon, MI 49444-2673 info@trace-labs.com

www.trace-labs.com

Report Results To: Bill To: **Request for Analytical Services** In executing this agreement, the client &cknowledges acceptance of the terms of the agreement as listed on the reverse side Please Sign Client Name: Mailing Address: City, State, Zip Code Email Address: Contact Person: Project Name: Project #: Silling Address (if different # lem TRACE NO. , State, σ 72 Zip Code: 6 61545. 6/10 CHE G DENDIFER OVERWOORDE 5ms-5tb 220 Sylo **のまる** FUNIFER 0850 <u>.</u> MONITORING 50 METALS FIELD FILTERED 2 . 00/ Solder toll-free fax 10-DELTUNE 10-34S Phone: RECEIVED BY DERWOORDS 231.773.5998 800.733.5998 231.773.6537 P0 # Fax: CLIENT SAMPLE ID A Fin @mtive cost 6 215bh Sampled by: 546 Muskegon, MI 49444-2673 Trace Analytical Laboratories, Inc. 2241 Black Creek Road www.trace-labs.com **CHAIN-OF-CUSTODY RECORD** 2 Ę, 800/ 6 Sho ĪME Z MATRIX E E NUMBER OF 3 # Item Regulatory Requirements
MERA TMDLs

Drinking Water

NPDES

USACE

Special TRACE USE ONLY 4  $\omega$ Logged By Soil Volatiles Preserved: Received office: RELEASED BY Ύes * 2-4 Day (RUSH) * 24 Hour (RUSH) Standard (2 wk) Requires prior approval ANALYSIS REQUESTED MeOH 공 En Core RECEIVED BY Preservative Checked: Checked By: Low Level Matrix Key
S = Soil
W = Water
SE = Sediment
OI = Oil
SO = Solid Waste Lab 16H REMARKS DATE WI = Wipes LW = Liquid Waste D = Drinking Water g TIME š Possible Health Hazard

#### **CERTIFICATE OF ANALYSIS**

h



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### SAMPLE LOG IN CHECKLIST

Date: 8-37-20 Client Name: R /	# of Coolers: /
	•
Trace ID #: 7(0 H 334 Project Name:	Cooler #s:
Logged in by:	Cooler #s:
Chole	r Receipt
Trace courier	
Cooler/samples delivered by: Hand delivered	Name of delivery person:
Commercial courier	
Did cooler come with a bill of lading?	
Yes	Way Bill or Tracking #:
COC Seals present and intact on cooler? No Yes	Not Applicable
Custody seals signed by Client? No	Client custody seal # (if applicable):
Yes	
Coolant and	d Temperature
Type of Coolant Used	Cooler Temperature Correction Factor → 3°C
Yes No	Date: 5-27-6 Time: 10.37
Slurry w/ crushed, cubed, or chip ice?	Temperature Blank: °C
Multiple bags of ice around samples?	Range of 3 samples: °C
Ice Packs/ Blue Ice :	Melt Water:
No Coolant Present:	Ice still present upon receipt: Yes No
Ge	neral
	Yes No NA
COC taped to inside of o	cooler lid?
All bottles arrived unbroken with labels in good o	the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of
Each sample point is in a sealed pla	
Labels filled out co	
All bottle labels agree with Chain of Custod	57
Sufficient sample to run tests re pH checked and samples at co	
Correct preservative added to	
DRO/GRO samples received and appropriate check in form co	
Air bubbles absent fro	
COC filled out properly and signed	
COC signed in by TRACE sample c	
Was project manager called and samples di	scussed?
Contact:	Date:
Notes:	
Notes.	

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### SAMPLE LOG IN CHECKLIST

Date: 75 - 25 - 10 Client Name:	? M
Trace ID #: 710 H 296 Project Name:	Cooler #s:
Logged in by:	Cooler #s:
Cool	er Receipt
Trace courie	
Cooler/samples delivered by: Hand delivered	Name of delivery person:
Commercial couries	UPS DHL FED EX JUS Mail
Did cooler come with a bill of lading?	Not Applicable
Yes	Way Bill or Tracking #:
COC Seals present and intact on cooler? No Yes	Not Applicable
Custody seals signed by Client? No	Client custody seal # (if applicable):
	d Temperature
Type of Coolant Used	Cooler Temperature Correction Factor + C. C.
Yes No	Date: 6-26-10 Time: 10:35
Slurry w/ crushed, cubed, or chip ice?	Temperature Blank: 2.7 °C
Multiple bags of ice around samples?	Range of 3 samples: <u>3 °C</u>
ice Packs/ Blue Ice :	Melt Water:°C
No Coolant Present:	Ice still present upon receipt: Yes No
G	eneral
	Yes No NA
	cooler lid?
All bottles arrived unbroken with labels in good	
Each sample point is in a sealed p	
Labels filled out c All bottle labels agree with Chain of Custo	
Sufficient sample to run tests r	
pH checked and samples at o	
Correct preservative added to	The statement of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the
DRO/GRO samples received and appropriate check in form of	
Air bubbles absent fr	
COC filled out properly and signed	
COC signed in by TRACE sample	
Was project manager called and samples o	liscussed?
Contact:	Date:
Notes:	
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# SAMPLE LOG IN CHECKLIST

Date: 8-25-10 Client Name: R	MT # of Coolers:
Trace ID #: 1/0H29c Project Name:	Cooler #s:
Logged in by:	Cooler #s:
Coole	er Receipt
. Trace courier	
Cooler/samples delivered by: Hand delivered	Name of delivery person:
Commercial courier	UPS DHL FED EX VS Mail
Did cooler come with a bill of lading? No	Not Applicable
Yes	Way Bill or Tracking #:
COC Seals present and intact on cooler? No	Not Applicable
Yes	
Custody seals signed by Client? No	Client custody seal # (if applicable):
Yes	
	d Temperature
Type of Coolant Used	Cooler Temperature Correction Factor + C . C
Slurry w/ crushed, cubed, or chip ice?	Date: \$\frac{125}{25}\frac{1}{10}\tag{Time: \land 35\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\f
Multiple bags of ice around samples?	Temperature Blank: 4.% °C
Ice Packs/ Blue Ice :	Range of 3 samples: °C
No Coolant Present:	Melt Water: °C
	Ice still present upon receipt: Yes No
Ge	neral
COC taned to inside of	Yes No NA
COC taped to inside of All bottles arrived unbroken with labels in good	min nitre principalitati ser se minimini talimatinga abapagan propriation at dagadangan minimininga
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COC signed in by TRACE sample c	
Was project manager called and samples di	scussed?
Contact:	Date:
Notes:	

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# SAMPLE LOG IN CHECKLIST

Date: 8 - 25 - 10 Client Name:	2 M T # of Coolers: 4
Trace ID #: 7/0/1294 Project Name:	Cooler #s:
Logged in by:	Cooler #s:
	er Receipt
Trace courier	
Cooler/samples delivered by: Hand delivered	Name of delivery person:
Commercial courier	UPS DHL FED EX Wail
Did cooler come with a bill of lading?	Not Applicable
Yes	Way Bill or Tracking #:
COC Seals present and intact on cooler? No	Not Applicable
Yes	
Custody seals signed by Client? No	Client custody seal # (if applicable):
Yes 7	
	d Temperature
Type of Coolant Used	Cooler Temperature Correction Factor
Yes No	Date: 8 - 25 - 10 Time: 10:54
Slurry w/ crushed, cubed, or chip ice?	Temperature Blank: 1.5 °C
Multiple bags of ice around samples?	Range of 3 samples: °C
Ice Packs/ Blue Ice :	Melt Water:°C
No Coolant Present:	Ice still present upon receipt: Yes No
Ge	eneral
COC terred to tradity of	Yes No NA
COC taped to inside of All bottles arrived unbroken with labels in good	annual like and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the c
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All bottle labels agree with Chain of Custoo	
Sufficient sample to run tests re	
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# SAMPLE LOG IN CHECKLIST

Date: 4 ^25 - 10 Client	Name: RMT		# of Coolers:	
Trace ID #: 7/0 # 296 Project	Name:		Cooler #s:	
Logged	in by Osma	.W	Cooler #s:	
· .	Cooler Rec	eipt		· ·
	Trace courier			
Cooler/samples delivered by: Ha	and delivered	Name of delivery person	on:	
Comme	ercial courier 🔽 🦠	UPS DI	HL FED EX	US Mail
Did cooler come with a bill of lading?	No 🔀	Not	Applicable	
	Yes	Way Bill or Tracking	#:	
COC Seals present and intact on cooler? No		ot Applicable		
Yes	Ì			
Custody seals signed by Client? No	Client o	custody seal # (if applicabl	e):	
Yes				
Co	oolant and Tem			
Type of Coolant Used	Co	oler Temperature	Correction Fact	
Yes	No	Date <u>4 25 70</u>	Time: 10 5	<del>, -</del> -
Slurry w/ crushed, cubed, or chip ice?		Temperature Blan		<u>, .c</u>
Multiple bags of ice around samples?		Range of 3 sample	es: <b>3</b>	°C
lce Packs/ Blue Ice :		Melt Wate	er:	<u>°C</u>
No Coolant Present:	lc	e still present upon receip	ot: Yes	No
	General			
				Yes No NA
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September 17, 2010

Ms. Jennifer Overvoorde RMT, Inc. 2025 E. Beltline Ave. SE Suite 402 Grand Rapids, MI 49546

Phone: (616) 975-5415 Fax: (616) 975-1098

RE: Trace Project T10I102

Client Project LEC Monitoring / 01545.41.001

Dear Ms. Overvoorde:

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

For clients that require NELAC Accreditation, Trace certifies that these test results meet all requirements of the NELAC Standard, except for those analytes with a "N" notation. These analytes have not been evaluated by NELAC at Trace's discretion and will not be reported unless requested by client.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,

Jon Mink Project Manager

**Enclosures** 





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### **SAMPLE SUMMARY**

Trace Project ID: T10I102

Client Project ID: LEC Monitoring / 01545.41.001

101102-01					Date Received
	DRC-02	Aqueous	sp	09/09/10 08:25	09/10/10 10:46
101102-02	SW-D-5	Aqueous	sp	09/09/10 08:30	09/10/10 10:46
101102-03	SW-R-1	Aqueous	sp	09/09/10 08:40	09/10/10 10:46
101102-04	SW-R-2	Aqueous	sp	09/09/10 08:45	09/10/10 10:46
101102-05	SW-R-3	Aqueous	sp	09/09/10 08:50	09/10/10 10:46
101102-06	SW-R-4	Aqueous	sp	09/09/10 08:55	09/10/10 10:46
101102-07	SW-D-4	Aqueous	sp	09/09/10 09:05	09/10/10 10:46
101102-08	SW-R-6	Aqueous	sp	09/09/10 09:30	09/10/10 10:46
101102-09	SW-D-3	Aqueous	sp	09/09/10 09:45	09/10/10 10:46
101102-10	SW-D-2	Aqueous	sp	09/09/10 09:50	09/10/10 10:46
101102-11	SW-D-1	Aqueous	sp	09/09/10 10:00	09/10/10 10:46
101102-12	DUP-01	Aqueous	sp	09/09/10	09/10/10 10:46
101102-13	RB-01	Aqueous	sp	09/09/10 10:20	09/10/10 10:46
101102-14	TB-01	Aqueous	sp	09/07/10	09/10/10 10:46



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#### AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT

#### **DEFINITIONS**

Laboratory Control Sample LCS

**LCSD** Laboratory Control Sample Duplicate

MS Matrix Spike

**MSD** Matrix Spike Duplicate **RPD** Relative Percent Difference

DUP Matrix Duplicate

RDL Reporting Detection Limit MCL Maximum Contamination Limit TIC Tentatively Identified Compound

<, ND or U Indicates the compound was analyzed for but not detected

Indicates a result that exceeds its associated MCL or Surrogate control limits

Ν Indicates that the compound has not been evaluated by NELAC

NA Indicates that the compound is not available.



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09/10/10

was

09/11/10

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#### **ANALYTICAL RESULTS**

Trace Project ID: T10I102

Benzene

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10I102-01 Date Collected: 09/09/10 08:25 Matrix: Aqueous Sample ID: DRC-02 Date Received: 09/10/10 10:46 **RESULTS UNITS** NOTES **PARAMETERS** RDL DILUTION PREPARED BY ANALYZED BY MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** Analysis Method: EPA 8260B Batch: T018548

0.50

#### Toluene <0.50 ug/L 0.50 1 09/10/10 was Ethylbenzene <0.50 ug/L 09/10/10 0.50 1 was m,p-Xylene <1.0 ug/L 1.0 1 09/10/10 was <0.50 ug/L 09/10/10 o-Xylene 0.50 1 was

<0.50 ug/L

Xylenes, total <1.5 ug/L 1 09/10/10 09/11/10 1.5 was was Surrogates: 88 % 1,2-Dichloroethane-d4 70-133 1 09/10/10 was 09/11/10 was 90 % Toluene-d8 76-125 09/10/10 was 09/11/10 was



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10I102

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10I102-02 Date Collected: 09/09/10 08:30 Matrix: Aqueous Sample ID: SW-D-5 Date Received: 09/10/10 10:46 PREPARED BY **PARAMETERS RESULTS UNITS** RDL DILUTION ANALYZED NOTES MCL BY

## **VOLATILE ORGANIC COMPOUNDS BY GC-MS**

# Analysis Method: EPA 8260B

<u> Analysis Method: EPA 8260B</u>									
Batch: T018548									
Benzene	<0.50 ug/L	0.50	1	09/10/10	was	09/11/10	was		
Toluene	<0.50 ug/L	0.50	1	09/10/10	was	09/11/10	was		
Ethylbenzene	<0.50 ug/L	0.50	1	09/10/10	was	09/11/10	was		
m,p-Xylene	<1.0 ug/L	1.0	1	09/10/10	was	09/11/10	was	N	
o-Xylene	<0.50 ug/L	0.50	1	09/10/10	was	09/11/10	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/10/10	was	09/11/10	was		
Surrogates:									
1,2-Dichloroethane-d4	88 %	70-133	1	09/10/10	was	09/11/10	was		
Toluene-d8	89 %	76-125	1	09/10/10	was	09/11/10	was		



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87 %

90 %

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#### **ANALYTICAL RESULTS**

Trace Project ID: T10I102

1,2-Dichloroethane-d4

Toluene-d8

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10I102-03 Date Collected: 09/09/10 08:40 Matrix: Aqueous Sample ID: SW-R-1 Date Received: 09/10/10 10:46 **RESULTS UNITS** NOTES **PARAMETERS** RDL DILUTION PREPARED BY ANALYZED BY MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** Analysis Method: EPA 8260B Batch: T018548 <0.50 ug/L 09/10/10 Benzene 0.50 1 was 09/11/10 was Toluene <0.50 ug/L 0.50 1 09/10/10 was 09/11/10 was Ethylbenzene <0.50 ug/L 09/10/10 09/11/10 0.50 1 was was m,p-Xylene <1.0 ug/L 1.0 1 09/10/10 was 09/11/10 was Ν <0.50 ug/L 09/10/10 09/11/10 o-Xylene Ν 0.50 1 was was Xylenes, total <1.5 ug/L 1 09/10/10 09/11/10 1.5 was was Surrogates:

70-133

76-125

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09/10/10

was

was

09/11/10

09/11/10

was

was



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<0.50 ug/L

<1.5 ug/L

88 %

91 %

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#### **ANALYTICAL RESULTS**

Trace Project ID: T10I102

o-Xylene

Xylenes, total

Surrogates:

Toluene-d8

1,2-Dichloroethane-d4

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10I102-04 Date Collected: 09/09/10 08:45 Matrix: Aqueous Sample ID: SW-R-2 Date Received: 09/10/10 10:46 **RESULTS UNITS** NOTES **PARAMETERS** RDL DILUTION PREPARED BY ANALYZED BY MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** Analysis Method: EPA 8260B Batch: T018548 <0.50 ug/L 09/10/10 Benzene 0.50 1 was 09/11/10 was Toluene <0.50 ug/L 0.50 1 09/10/10 was 09/11/10 was Ethylbenzene <0.50 ug/L 09/10/10 09/11/10 0.50 1 was was m,p-Xylene <1.0 ug/L 1.0 1 09/10/10 was 09/11/10 was Ν

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76-125

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#### **CERTIFICATE OF ANALYSIS**

Report ID: T10I102 FINAL 09 17 10 1609 Page 7 of 24



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89 %

91 %

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#### **ANALYTICAL RESULTS**

Trace Project ID: T10I102

1,2-Dichloroethane-d4

Toluene-d8

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10I102-05 Date Collected: 09/09/10 08:50 Matrix: Aqueous

Sample ID: SW-R-3 Date Received: 09/10/10 10:46 **RESULTS UNITS** NOTES **PARAMETERS** RDL DILUTION PREPARED BY ANALYZED BY MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** Analysis Method: EPA 8260B Batch: T018548 <0.50 ug/L 09/10/10 Benzene 0.50 1 was 09/11/10 was Toluene <0.50 ug/L 0.50 1 09/10/10 was 09/11/10 was Ethylbenzene <0.50 ug/L 09/10/10 09/11/10 0.50 1 was was m,p-Xylene <1.0 ug/L 1.0 1 09/10/10 was 09/11/10 was Ν <0.50 ug/L 09/10/10 09/11/10 o-Xylene Ν 0.50 1 was was Xylenes, total <1.5 ug/L 1 09/10/10 09/11/10 1.5 was was Surrogates:

70-133

76-125

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09/11/10

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#### **CERTIFICATE OF ANALYSIS**

Report ID: T10I102 FINAL 09 17 10 1609 Page 8 of 24



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91 %

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#### **ANALYTICAL RESULTS**

Trace Project ID: T10I102

Toluene-d8

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10I102-06 Date Collected: 09/09/10 08:55 Matrix: Aqueous Sample ID: SW-R-4 Date Received: 09/10/10 10:46

**RESULTS UNITS** NOTES **PARAMETERS** RDL DILUTION PREPARED BY ANALYZED BY MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** Analysis Method: EPA 8260B Batch: T018548 <0.50 ug/L 09/10/10 Benzene 0.50 1 was 09/11/10 was Toluene <0.50 ug/L 0.50 1 09/10/10 was 09/11/10 was Ethylbenzene <0.50 ug/L 09/10/10 09/11/10 0.50 1 was was m,p-Xylene <1.0 ug/L 1.0 1 09/10/10 was 09/11/10 was Ν <0.50 ug/L 09/10/10 09/11/10 o-Xylene Ν 0.50 1 was was Xylenes, total <1.5 ug/L 1 09/10/10 09/11/10 1.5 was was Surrogates: 89 % 1,2-Dichloroethane-d4 70-133 1 09/10/10 was 09/11/10 was

76-125

09/10/10

was

09/11/10

was



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<1.0 ug/L

<0.50 ug/L

<1.5 ug/L

92 %

91 %

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#### **ANALYTICAL RESULTS**

Trace Project ID: T10I102

m,p-Xylene

Xylenes, total

Surrogates:

Toluene-d8

1,2-Dichloroethane-d4

o-Xylene

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10I102-07 Date Collected: 09/09/10 09:05 Matrix: Aqueous Sample ID: SW-D-4 Date Received: 09/10/10 10:46 **RESULTS UNITS** NOTES **PARAMETERS** RDL DILUTION PREPARED BY ANALYZED BY MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** Analysis Method: EPA 8260B Batch: T018628 <0.50 ug/L 09/15/10 Benzene 0.50 1 was 09/15/10 was Toluene <0.50 ug/L 0.50 1 09/15/10 was 09/15/10 was Ethylbenzene <0.50 ug/L 09/15/10 0.50 1 09/15/10 was was

1.0

0.50

1.5

70-133

76-125

1

1

1

1

09/15/10

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was

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<1.0 ug/L

<0.50 ug/L

<1.5 ug/L

89 %

90 %

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#### **ANALYTICAL RESULTS**

Trace Project ID: T10I102

m,p-Xylene

Xylenes, total

Surrogates:

Toluene-d8

1,2-Dichloroethane-d4

o-Xylene

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10I102-08 Date Collected: 09/09/10 09:30 Matrix: Aqueous Sample ID: SW-R-6 Date Received: 09/10/10 10:46 **RESULTS UNITS** NOTES **PARAMETERS** RDL DILUTION PREPARED BY ANALYZED BY MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** Analysis Method: EPA 8260B Batch: T018628 <0.50 ug/L 09/15/10 Benzene 0.50 1 was 09/15/10 was Toluene <0.50 ug/L 0.50 1 09/15/10 was 09/15/10 was Ethylbenzene <0.50 ug/L 09/15/10 09/15/10

0.50

1.0

0.50

1.5

70-133

76-125

1

1

1

1

1

was

was

was

was

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was

09/15/10

09/15/10

09/15/10

09/15/10

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<1.5 ug/L

91 %

105 %

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#### **ANALYTICAL RESULTS**

Trace Project ID: T10I102

Xylenes, total

Surrogates:

Toluene-d8

1,2-Dichloroethane-d4

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10I102-09 Date Collected: 09/09/10 09:45 Matrix: Aqueous Sample ID: SW-D-3 Date Received: 09/10/10 10:46 **RESULTS UNITS** NOTES **PARAMETERS** RDL DILUTION PREPARED BY ANALYZED BY MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** Analysis Method: EPA 8260B Batch: T018631 <0.50 ug/L 09/15/10 Benzene 0.50 1 was 09/15/10 was Toluene <0.50 ug/L 0.50 1 09/15/10 was 09/15/10 was Ethylbenzene <0.50 ug/L 09/15/10 0.50 1 09/15/10 was was m,p-Xylene <1.0 ug/L 1.0 1 09/15/10 was 09/15/10 was Ν <0.50 ug/L 09/15/10 09/15/10 o-Xylene Ν 0.50 1 was was

1.5

70-133

76-125

1

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09/15/10

09/15/10

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09/15/10

09/15/10

09/15/10

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was

was

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Report ID: T10I102 FINAL 09 17 10 1609



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#### **ANALYTICAL RESULTS**

Trace Project ID: T10I102

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10I102-10 Date Collected: 09/09/10 09:50 Matrix: Aqueous

Sample ID: SW-D-2 Date Received: 09/10/10 10:46 **RESULTS UNITS** NOTES **PARAMETERS** RDL DILUTION PREPARED BY ANALYZED BY MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** Analysis Method: EPA 8260B Batch: T018659 <0.50 ug/L 09/16/10 Benzene 0.50 1 was 09/16/10 was Toluene <0.50 ug/L 0.50 1 09/16/10 was 09/16/10 was Ethylbenzene <0.50 ug/L 09/16/10 09/16/10 0.50 1 was was m,p-Xylene <1.0 ug/L 1.0 1 09/16/10 was 09/16/10 was Ν <0.50 ug/L 09/16/10 09/16/10 o-Xylene Ν 0.50 1 was was Xylenes, total <1.5 ug/L 1 09/16/10 09/16/10 1.5 was was Surrogates: 90 % 1,2-Dichloroethane-d4 70-133 1 09/16/10 was 09/16/10 was 105 % Toluene-d8 76-125 09/16/10 was 09/16/10 was

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#### **ANALYTICAL RESULTS**

Trace Project ID: T10I102

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10I102-11 Date Collected: 09/09/10 10:00 Matrix: Aqueous Sample ID: SW-D-1 Date Received: 09/10/10 10:46 PREPARED BY **PARAMETERS RESULTS UNITS** RDL DILUTION ANALYZED NOTES MCL BY

## **VOLATILE ORGANIC COMPOUNDS BY GC-MS**

# Analysis Method: EPA 8260B

Analysis Method: EPA 8260B									
Batch: T018631									
Benzene	<0.50 ug/L	0.50	1	09/15/10	was	09/15/10	was		
Toluene	<0.50 ug/L	0.50	1	09/15/10	was	09/15/10	was		
Ethylbenzene	<0.50 ug/L	0.50	1	09/15/10	was	09/15/10	was		
m,p-Xylene	<1.0 ug/L	1.0	1	09/15/10	was	09/15/10	was	N	
o-Xylene	<0.50 ug/L	0.50	1	09/15/10	was	09/15/10	was	N	
Xylenes, total	<1.5 ug/L	1.5	1	09/15/10	was	09/15/10	was		
Surrogates:									
1,2-Dichloroethane-d4	91 %	70-133	1	09/15/10	was	09/15/10	was		
Toluene-d8	107 %	76-125	1	09/15/10	was	09/15/10	was		



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93 %

104 %

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#### **ANALYTICAL RESULTS**

Trace Project ID: T10I102

Surrogates:

Toluene-d8

1,2-Dichloroethane-d4

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10I102-12 Date Collected: 09/09/10 Matrix: Aqueous Sample ID: DUP-01 Date Received: 09/10/10 10:46 **RESULTS UNITS** PREPARED NOTES **PARAMETERS** RDL DILUTION BY ANALYZED BY MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** Analysis Method: EPA 8260B Batch: T018650 <0.50 ug/L 09/15/10 Benzene 0.50 1 was 09/16/10 was Toluene <0.50 ug/L 0.50 1 09/15/10 was 09/16/10 was Ethylbenzene <0.50 ug/L 09/15/10 09/16/10 0.50 1 was was m,p-Xylene <1.0 ug/L 1.0 1 09/15/10 was 09/16/10 was Ν <0.50 ug/L 09/15/10 09/16/10 o-Xylene Ν 0.50 1 was was Xylenes, total <1.5 ug/L 1 09/15/10 09/16/10 1.5 was was

70-133

76-125

1

09/15/10

09/15/10

was

was

09/16/10

09/16/10

was

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91 %

104 %

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#### **ANALYTICAL RESULTS**

Trace Project ID: T10I102

1,2-Dichloroethane-d4

Toluene-d8

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10I102-13 Date Collected: 09/09/10 10:20 Matrix: Aqueous Sample ID: RB-01 Date Received: 09/10/10 10:46 **RESULTS UNITS** NOTES **PARAMETERS** RDL DILUTION PREPARED BY ANALYZED BY MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** Analysis Method: EPA 8260B Batch: T018650 <0.50 ug/L 09/15/10 Benzene 0.50 1 was 09/16/10 was Toluene <0.50 ug/L 0.50 1 09/15/10 was 09/16/10 was Ethylbenzene <0.50 ug/L 09/16/10 0.50 1 09/15/10 was was m,p-Xylene <1.0 ug/L 1.0 1 09/15/10 was 09/16/10 was Ν <0.50 ug/L 09/15/10 09/16/10 o-Xylene Ν 0.50 1 was was Xylenes, total <1.5 ug/L 1 09/15/10 09/16/10 1.5 was was Surrogates:

70-133

76-125

1

09/15/10

09/15/10

was

was

09/16/10

09/16/10

was

was



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102 %

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#### **ANALYTICAL RESULTS**

Trace Project ID: T10I102

Toluene-d8

Client Project ID: LEC Monitoring / 01545.41.001

Trace ID: T10I102-14 Date Collected: 09/07/10 Matrix: Aqueous Sample ID: TB-01 Date Received: 09/10/10 10:46 **RESULTS UNITS** NOTES **PARAMETERS** RDL DILUTION **PREPARED** BY ANALYZED BY MCL **VOLATILE ORGANIC COMPOUNDS BY GC-MS** Analysis Method: EPA 8260B Batch: T018650 <0.50 ug/L 09/15/10 Benzene 0.50 1 was 09/16/10 was Toluene <0.50 ug/L 0.50 1 09/15/10 was 09/16/10 was Ethylbenzene <0.50 ug/L 09/15/10 09/16/10 0.50 1 was was m,p-Xylene <1.0 ug/L 1.0 1 09/15/10 was 09/16/10 was Ν <0.50 ug/L 09/15/10 09/16/10 o-Xylene Ν 0.50 1 was was Xylenes, total <1.5 ug/L 1 09/15/10 09/16/10 1.5 was was Surrogates: 89 % 1,2-Dichloroethane-d4 70-133 1 09/15/10 was 09/16/10 was

76-125

09/15/10

was

09/16/10

was



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#### **QUALITY CONTROL RESULTS**

Trace Project ID: T10I102

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch: T018548

QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous

Samples

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

Analysis Method: EPA 8260B

#### METHOD BLANK: T018548-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Methyl-tert-butyl ether	ug/L	<0.50	0.50	
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	83	70-133	
Toluene-d8 (S)	%	92	76-125	

#### LABORATORY CONTROL SAMPLE: T018548-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	18.1	91	80-120	
Toluene	ug/L	20.0	18.2	91	80-120	
1,2-Dichloroethane-d4 (S)	%	30.0	25.1	84	70-133	
Toluene-d8 (S)	%	30.0	27.6	92	76-125	

Trace Project ID: T10I102

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch: T018628

QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous

Samples

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

Analysis Method: EPA 8260B

#### METHOD BLANK: T018628-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Methyl-tert-butyl ether	ug/L	<0.50	0.50	
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	91	70-133	
Toluene-d8 (S)	%	90	76-125	

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#### LABORATORY CONTROL SAMPLE: T018628-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	20.9	105	80-120	
Toluene	ug/L	20.0	19.8	99	80-120	
1,2-Dichloroethane-d4 (S)	%	30.0	26.9	90	70-133	
Toluene-d8 (S)	%	30.0	27.2	91	76-125	

Trace Project ID: T10I102

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch: T018631

QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous

Samples

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

Analysis Method: EPA 8260B

#### METHOD BLANK: T018631-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Methyl-tert-butyl ether	ug/L	<0.50	0.50	
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	90	70-133	
Toluene-d8 (S)	%	103	76-125	

#### LABORATORY CONTROL SAMPLE: T018631-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	21.6	108	80-120	
Toluene	ug/L	20.0	21.8	109	80-120	
1,2-Dichloroethane-d4 (S)	%	25.0	22.6	90	70-133	
Toluene-d8 (S)	%	25.0	26.2	105	76-125	

Trace Project ID: T10I102

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch: T018650

QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous

Samples

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

Analysis Method: EPA 8260B

#### METHOD BLANK: T018650-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Methyl-tert-butyl ether	ug/L	<5.0	5.0	
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	

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#### METHOD BLANK: T018650-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	93	70-133	
Toluene-d8 (S)	%	104	76-125	

#### LABORATORY CONTROL SAMPLE: T018650-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	20.5	103	80-120	
Toluene	ug/L	20.0	20.3	102	80-120	
1,2-Dichloroethane-d4 (S)	%	25.0	22.1	88	70-133	
Toluene-d8 (S)	%	25.0	26.1	105	76-125	

Trace Project ID: T10I102

Client Project ID: LEC Monitoring / 01545.41.001

QC Batch: T018659

QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous

Samples

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

Analysis Method: EPA 8260B

#### METHOD BLANK: T018659-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Methyl-tert-butyl ether	ug/L	<0.50	0.50	
Benzene	ug/L	<0.50	0.50	
Toluene	ug/L	<0.50	0.50	
Ethylbenzene	ug/L	<0.50	0.50	
m,p-Xylene	ug/L	<1.0	1.0	
o-Xylene	ug/L	<0.50	0.50	
Xylenes, total	ug/L	<1.5	1.5	
1,2-Dichloroethane-d4 (S)	%	88	70-133	
Toluene-d8 (S)	%	106	76-125	

#### LABORATORY CONTROL SAMPLE: T018659-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	21.2	106	80-120	
Toluene	ug/L	20.0	22.0	110	80-120	
1,2-Dichloroethane-d4 (S)	%	25.0	22.3	89	70-133	
Toluene-d8 (S)	%	25.0	26.5	106	76-125	

#### MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T018659-MSD1

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T018659-MSD1				Original:	T10I102-1	0					
Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T018659-MSD1

Original: <b>T</b>	101102-10
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Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Benzene	ug/L	0	20.0	20.9	21.1	105	105	78-114	0.8	11	
Toluene	ug/L	0	20.0	21.2	21.6	106	108	77-118	1	10	
1,2-Dichloroethane-d4 (S)	%		25.0	22.2	22.3	89	89	70-133			
Toluene-d8 (S)	%		25.0	25.8	26.8	103	107	76-125			



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the science of compliance www.trace-labs.com Please Sign Request for Analytical Services Bill To: Report Results To: # item Client Name: Billing Address (if different) Project Name: LEC Project #: Email Address: JENN, Fea. City, State, Zip Code Phone: 6/6 City, State, Zip Code: 6 COND Mailing Address: Contact Person: TRACE NO. 72 0 Ş 0/13/ 01545. 41,00  $\tilde{z}$ 0 ō the science of compliance 70 õ ma 0) 6 STAS 546 2025 JENNITÉR OVERWOODE LEASED BY 0950 0845 2080 0850 08 30 5580 5h80 0240 08.30 2880 MONITORING 17 MADISON Luc. METALS FIELD FILTERED CAPIDS Dufayeoape @ mit bucions RELTLINE AVE Sw-0-3 Sw-18-6 Sw-D-4 5w- R-4 5-12-WS 2-2-ms Sw-R-S-0-0-2 5W-0-5 phone toll-free DRC-02 Mary manua Phone RECEIVED BY 3 231.773.5998 800.733.5998 231.773.6537 CLIENT SAMPLE PO #: 9hshh 616 975 艺 Sampled by: S, Muskegon, MI 49444-2673 Trace Analytical Laboratories, Inc. 2241 Black Creek Road DATE CHAIN-OF-CUSTODY RECORD Ę, 10 8301 E 10:46 11/5 U TIME E ε ε  $\mathcal{E}$ ٤ E ٤ E MATRIX C NUMBER OF CONTAINERS Ø N N  $c_{j}$ b 6 c) 2 # **e** Begulatory Requirements

MERA TMDL's

Drinking Water

NPDES

USACE X × × × TRACE USE ONLY 4) 3) Soil Volatiles Preserved: Logged By: Received on ice: RELEASED 2 12/0 0 3 Β , Yes Standard (2 wk)

5 Day

2-4 Day (RUSH)

24 Hour (RUSH) Page_ Standard (2 wk) urnaround Requirement ANALYSIS REQUESTED MeOH S RECEIVED BY En Core Preservative Checked Checked By: Low Level SE = Sediment
OI = Oil
SO = Solid Waste S = Soil W = Water ы REMARKS TRACE ID NO. g SL = Sludge D = Drinking Water LW = Liquid Waste

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Possible Health Hazard

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231.773.5998 800.733.5998 231.773.6537

Trace Analytical Laboratories, Inc. 2241 Black Creek Road . Muskegon, MI 49444-2673 info@trace-labs.com

www.trace-labs.com In executing this agreement, the client acknowledges acceptance of the terms of the agreement as listed on the reverse side Please Sign **Request for Analytical Services** Bill To: Report Results To: Project Name: LEC Project # 01545.41.00 Email Address: JEINIFER. DUERNOOPER @ MATING. COM City, State, Zip Code Billing Address (if different) Phone: 616 City, State, Zip Code: 6 - A. Mailing Address: 2025 Contact Person: Client Name: # ₹ TRACE NO. Φ all B DATE TAKEN the science of compliance 57hs 526 JENNIFER 242 2 ō ø LEASED BY 1070 1000 TIME TAKEN MONITORUG পা MADISON, W METALS FIELD FILTERED Rapios M BELTLINE phone toll-free 5w-0-12B-0 Dup-TB-01 DUERUOOROS Mountander Phone: RECEIVED BY 231.773.5998 800.733.5998 231.773.6537 0 CLIENT SAMPLE PO # Fax: 616 975 A.S. ghsbh 3 Sampled by: S.D. Muskegon, MI 49444-2673 Trace Analytical Laboratories, Inc. 2241 Black Creek Road www.trace-labs.com والتارة DATE CHAIN-OF-CUSTODY RECORD Ę 8301 10.46 402 IME ٤ ε ٤ MATRIX NUMBER OF CONTAINERS 1 S S # **ਵਿੱ** Regulatory Requirements

MERA TMDL's

Drinking Water

NPDES

USACE

USACE × TRACE USE ONLY 4  $\omega$ Soil Volatiles Preserved: Logged By: Received on ice: RELEASED BY ₹ * 2-4 Day (RUSH) * 24 Hour (RUSH) Standard (2 wk) * 5 Day Turnaround Requirements Requires prior approval ANALYSIS REQUESTED MeOH ᇂ En Core RECEIVED BY Preservative Checked Checked By: Low Level W = Water SE = Sediment OI = Oil S = Soil SO = Solid Waste Q Lab DATE REMARKS TRACE ID NO. és SL = Sludge D = Drinking Water A = AirLW = Liquid \ 중 IME N/A Waste

#### **CERTIFICATE OF ANALYSIS**

Possible Health Hazard



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### SAMPLE LOG IN CHECKLIST

Date: 0//0/10 Client Name:	# of Coolers:	
Trace ID#: TIO I IOZ Project Name:	De-sample (LEC) Cooler #s:	,
Logged in by:	Cooler #s:	
	er Receipt	·
Trace courier		<u> </u>
Cooler/samples delivered by: Hand delivered		
Commercial courier	UPS DHL FED EX	US Mail
Did cooler come with a bill of lading?	Not Applicable	
Yes	Way Bill or Tracking #:	
COC Seals present and intact on cooler? No	Not Applicable	
Yes		
Custody seals signed by Client? No	Client custody seal # (if applicable):	
Yes		<u> </u>
Coolant an	d Temperature	
Type of Coolant Used	Cooler Temperature Correction Fa	<i>i</i> .
Yes No	Date: 9 10 (0 Time: 10', 9	
Slurry w/ crushed, cubed, or chip ice?	Temperature Blank:  Range of 3 samples:	<u>°C</u>
Multiple bags of ice around samples?		<u>°C</u>
Ice Packs/ Blue Ice :	Melt Water:	
No Coolant Present:	Ice still present upon receipt: Yes	] No
G	eneral	
		Yes No NA
	f cooler lid?	
	l condition?	
Labels filled out of		
All bottle labels agree with Chain of Custo	AND THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPER	
Sufficient sample to run tests		
pH checked and samples at	correct pH?	
Correct preservative added t	o samples?	
DRO/GRO samples received and appropriate check in form		
Air bubbles absent f	to the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contrac	
COC filled out properly and signe		
	custodian? discussed?	
	Date:	
Contact:	Date.	
Notes:		

Rev.8 11/21/06

LOGIN4

TRACE Analytical Laboratories. Inc.

# Appendix C Photographic Summary

Client Name: Site Location: Project No.:

DayCo/LE Carpenter & Company Wharton, NJ 01545.41.001

 Photo No.
 Date

 1
 8/26/10

Description

Standing West of Main Street looking East toward the intersection of Main Street and Ross Street and the restored MW19HS1 remediation area.



Photo No. Date
2 8/26/10

Description

Standing near MW-29s looking Southeast toward MW-30D, 30I, and 30S and the wetland area.





Site Location: **Client Name: Project No.:** DayCo/LE Carpenter & Company Wharton, NJ 01545.41.001

Photo No. Date 3 8/26/10

Description

Standing near the wetland area looking Northwest across the MW-30 site.



Photo No. Date 8/26/10

Description

Standing near SW-D-4 looking upstream (North) in the drainage ditch.





Client Name:	Site Location:	Project No.:
DayCo/LE Carpenter & Company	Wharton, NJ	01545.41.001

 Photo No.
 Date

 5
 8/26/10

Description

Standing near SW-D-4 looking downstream (East) in the drainage ditch.



Photo No. Date 6 8/26/10

# Description

Standing near the wetland boundary looking East into the wetland area. MW-31s is shown in the photograph near the property fence.





Client Name: Site Location: Project No.:

DayCo/LE Carpenter & Company Wharton, NJ 01545.41.001

**Photo No. Date** 7 8/26/10

Description

Standing near the wetland boundary looking East into the wetland area. MW-32s is shown in the photograph.

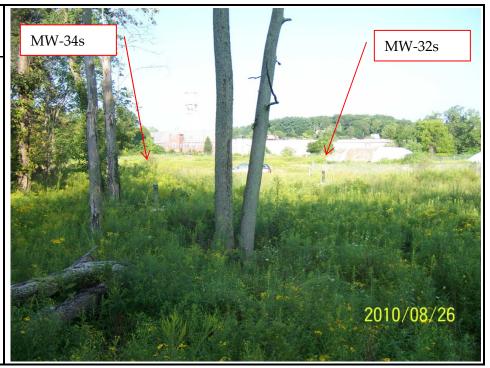


 Photo No.
 Date

 8
 8/26/10

Description

Standing at MW-35s looking West across the wetland area.





Client Name: Site Location: Project No.:

DayCo/LE Carpenter & Company Wharton, NJ 01545.41.001

 Photo No.
 Date

 9
 8/26/10

Description

Standing near DRC-02 (ditch river confluence) looking downstream toward the Rockaway River.



 Photo No.
 Date

 10
 8/26/10

Description

Standing near DRC-02 looking upstream (North) toward the former beaver dam and SW-D-5.





Client Name: Site Location: Project No.:

DayCo/LE Carpenter & Company Wharton, NJ 01545.41.001

Photo No. Date
11 8/26/10

# Description

Standing near SW-D-5 looking downstream the ditch leading toward the Rockaway River.



Photo No.	Date
12	8/26/10

# Description

Standing near SW-D-5 and former beaver dam. Note the previous staff gauge and replacement staff gauge installed due to lower water elevations in the drainage ditch.



# Appendix D Project Schedule